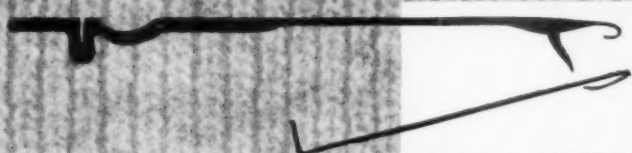


Knitted Outerwear Times



the official publication of the
national knitted outerwear association
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sweaters • swim suits • infantswear • knit fabrics • gloves • headwear

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Vol. 28

MONDAY, JANUARY 11, 1960

No. 2

Trade Statistics

Men's Sweater Shipments Rise

WASHINGTON, D. C. — Average weekly shipments of men's sweaters during November were nine percent above the corresponding month a year ago, the Bureau of Census reported this week. Shipments during November, 1959, averaged 75,000 dozen weekly against weekly average shipments of 69,000 dozen in November, 1958.

As compared with October, 1959, the November, 1959, shipments were down 30 percent from the 107,000 dozen weekly average.

Ladies' Sweaters

Shipments of ladies' sweaters during November, 1959, declined nine percent from the preceding month and were down 10 percent from the corresponding month in 1958. November, 1959, shipments amounted to 766,000 dozen as compared with 841,000 and 855,000, respectively, in October, 1959, and November, 1958.

Record Attendance Seen For KMRA Show

Attendance at the upcoming fall market week of the Knitwear Mill Representatives Association at the New York Trade Show Building will be substantially ahead of 1959, it was disclosed last week. The show will be held January 24-28.

The group expects that twice the number of wholesalers who attended last year's show will register at this year's event.

Early ordering of back-to-

school lines is anticipated. Heavy advance ordering is also looked for in the expectation that the buyers will seek to beat expected price increases in sweater lines.

Gov't Procurement

Eighty-Hour Set Aside Procedure Discontinued

The eighty-hour set-aside procedure for knitting mills bidding on government contracts has been discontinued until January 1, 1961, it was disclosed by Sidney S. Korzenik, executive director and counsel of the National Knitted Outerwear Association.

The action was taken under an agreement between the Armed Services Procurement Regulation Committee and the Office of Civil and Defense Mobilization acting under a protest filed by Mr. Korzenik on behalf of knitted outerwear manufacturers.

Obituaries

Keller Killed In Plane Crash

A prominent Brooklyn sweater manufacturer and his wife, Mr. & Mrs. Harry Keller, were among the victims of the crash of the Miami-bound National Airlines plane on January 6. The plane came down in swampy ground near Bolivia, N. C. All of the plane's 29 passengers and crew of five were killed.

Mr. Keller was president of Harry Keller Company, 538 Park Ave., Brooklyn. He had been connected with the sweater industry since 1919 and organized the company he headed at

(Continued on Page 23)

Synthetic Fiber Development

Celanese Corp. Purchases Darvan From Goodrich For Textile End-Uses

By CHARLES REICHMAN, Editor

A PROMINENT producer of acetate and triacetate fiber and yarn, Celanese Corporation of America, has acquired Darvan nitril fiber from the B. F. Goodrich Chemical Company. Announcement of the purchase of the vinylidene chloride dinitrile fiber by the cellulosic fiber producer came as a surprise to members of the industry. Although the fiber to date has not received widespread acceptance among sweater and knitted shirt manufacturers, it was felt by many knitwear producers that eventually it might meet with a warmer reception, especially if problems with respect to dyeing were overcome.

With the introduction early last year of a new Type X-7 Darvan, it was felt that Goodrich was coming closer to making available to the trade a more dyeable fiber. The original Darvan product could not be readily colored in a full range of light and dark shades by yarn or sweater-strip dyeing methods, the normal procedures used in the knitted outerwear trade.

The X-7 version was not only dyeable by these conventional trade methods but also had an affinity for the same types of dyestuffs which the industry was accustomed to using in dyeing its Orlon sweaters. Regular Darvan can be dyed in medium and dark shades with dispersed dyes using a carrier or high temperatures. The X-7 version can be dyed with acid, basic and disperse dyes without carriers.

Darvan is currently available in knitwear in a limited number of lines. Men's sweaters are turned out by North American Knitting Co., sweater-shirts by Cluett, Peabody, and a line of

ladies' sweaters was due to be test-marketed by Exmoor Knitwear. The first Darvan sweaters on the market in 1957 were a full-fashioned Shetland-textured knits made by Benjamin Moseley Company. This Needham Heights, Mass., sweater producer no longer produces Darvan sweaters.

The nitrile fiber is turned out in Goodrich fiber-producing facilities set up at Avon Lake, near Cleveland, Ohio. The plant has been described as somewhat larger than a pilot plant facility but considerably smaller than a commercial installation. Under the purchase agreement the Goodrich company will continue to operate the plant for Celanese until the latter company is ready to produce the fiber with its own facilities.

The implication which trade observers draw from this is that Celanese plans to produce Darvan in huge, commercial quantities. Two important basic ingredients of Darvan, acetic acid and vinyl acetate, are manufactured by Celanese at a plant in Pampa, Texas. The acetic acid is the original building block for Darvan. In the fiber-forming process, the acetic acid is transformed into vinylidene dinitrile. The latter is then copolymerized with vinyl acetate.

(Continued on Page 23)



At last...sweaters show their true colors!

Our new and different nylon for texturized yarn produces colors so rich, so beautiful, that they'll spark imaginative new ideas in sweater styling. The reason for this is because Enka's nylon takes dyes like no other nylon... difficult colors are achieved quickly and economically. This greater affinity for dyes also means an *evenness* of color that eliminates streakiness worries. And—it processes with the greatest of ease!

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comfortable because it's naturally softer, more absorbent and resilient. The affinity for dyes, absorbency and resiliency are all inherent characteristics which can only be found in Enka nylon. The technical explanation lies in the different molecular structure. Also, our nylon is produced on a continuous, not a batch, basis.

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The Knitted Outerwear Times being the official publication of the National Knitted Outerwear Association, is exclusively devoted to the dissemination of information, the exchange of opinion, the stimulation of trade, and the general improvement of the knitted outerwear industry in accordance with the Association's basic objectives as expressed in the preamble of its by-laws.

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Yardgoods Knitting Machinery

Stitch Scope Of Terrot Model RMR

A WIDE variety of fancy jacquard-patterned fabrics, many in designs currently interpreted in high style Continental and Italian knits, are producible on the Terrot Model RMR circular knitting machine. Several of these yardgoods machines are currently in operation in mills in this country. The machine is produced in Stuttgart, Germany, by C. Terrot Sohne and sold and serviced in the United States and Canada by Morris Speizman Co. Inc., Charlotte, N. C.

The Model RMR is a 30-inch diameter cylinder and dial unit equipped with 24 feeds and available in 16 cut. Patterns producible include double pique, eightlock, one-, two- and three-color jacquard designs and blister stitch effects with either plain or twill back. Single color design areas are 144 courses in depth while the two- and three-color pattern designs are, respectively, 72 and 48 courses high.

Different Dial Needles

Two different double-butted needles are used in the dial and a uniform type of needle in the cylinder. Details of the three varieties of needle are shown in the illustration elsewhere on this page. The two top needles in the diagram operate from the dial. The bottom needle is, of course, from the cylinder.

Functioning of the cylinder needles is governed either by movable swing cams or over-size pattern wheels. The latter are five inches in diameter and hold 216 jacks.

Like on the Morat circular jacquard machine, another German fancy yardgoods machine, the pattern wheels are pre-filled with jacks. The wheels thus may be quickly set up in accordance with any desired design or pattern by means of a separate selector device which operates on a push key principle.

By pressing down on one of two different levers of the selector, the jacks or bits in the pattern wheel can be positioned to the front or center of the wheel. The levers rack the pattern wheel one slot at a time. The lever labeled "L" presses the jack toward the center of the pattern wheel for needle selection, while the lever marked "V" on the selector leaves the jack in place.

The two types of double-butted dial needles can be set

for knitting, tucking or welting by means of two cam adjustment knobs—one for the front butt dial needles and the other for the back butt needles.

One dial cam setting is for knitting basic 1 X 1 needle set-outs such as conventional rib structures, double pique patterns, ripple stitch textures and vertical stripes up to three needles wide. The second dial cam adjustment controls the knitting of all structures based on a 2 X 2 needle set-out as well as jacquard patterns incorporating two and three colors, blister stitch designs and double pique combined with large vertical stripes.

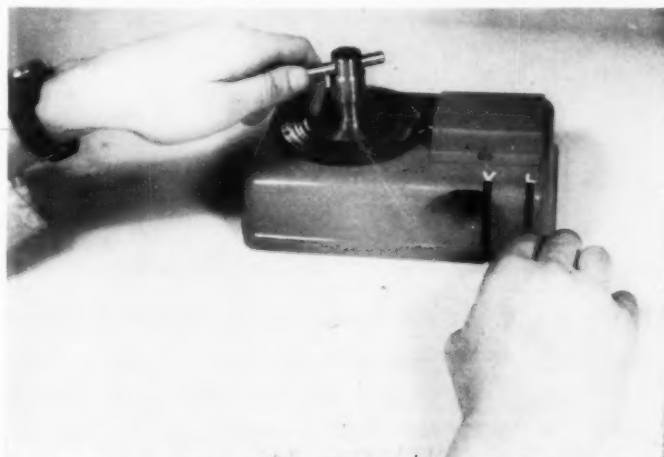
The machine is equipped with a yarn feeding system consisting of two conical furnishing wheels. The latter are utilized only in the knitting of plain fabrics; they are not employed when fancy-type fabrics are being produced. For this type of material the yarn is controlled via conventional disc tension devices.

In addition to the feed wheel system, the machine is fitted with six rubber feeding mechanisms consisting of a system of pulley-like capstans. These assure easy and tension-free feeding of the rubber thread in the manufacture of swimwear fab-



Needle set-out of Terrot Model RMR. Top are double-butted dial needles; bottom, the single type of cylinder needle.

rics. The feeding of the rubber yarn can be varied, with three
(Continued on Page 5)



Selector device used in setting up giant-size pattern wheels for the Terrot Model RMR.



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different alternatives offered to the knitter—tight, moderate or loose feeding.

Covered Wheels

The pattern wheels are enclosed in plastic covers to keep them free of lint. The machine also has its own lint-blowing attachment to keep the knitting elements system free of accumulations of the fluff. The air from the built-in lint blower is blown from inside the cylinder out and is operated by its own compressor mechanism.

Functioning of the furnishing wheels is governed by a speed changer which is infinitely variable located over the motor drive of the machine. The motor also has infinitely variable speed control and is capable of attaining 15 different speed settings.

Combined with the furnishing wheel yarn feeding system is a sensitive electrical stop motion above the yarn guides. An additional stop motion system is set up above the stationary yarn creel. The top group of stop motions are of a specially-pre-



Samples of the variety of fancy patterned fabrics producible on the Terrot Model RMR.

pared plastic material and are synchronized with a group of signal lights.

Output of the machine varies with the type of fabric structure being produced. Double pique

fabric, for example, is knit at the rate of 70-72 lbs. in an eight hour day.

Winding

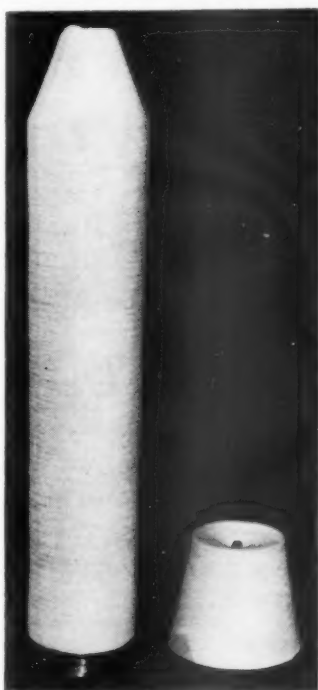
Giant Size Package Wound

CHARLOTTE, N. C. — A new type of giant yarn package is being introduced for the first time in the United States by the Interstate Textile Equipment Company of this city. It is called the Delerue 'Rocket' put up. It is produced on a winding machine developed and manufactured by D. Delerue & Company, Roubaix, France. The jumbo yarn put-up according to M. P. DeLeo, vice president of Interstate, has met with "tremendous success" in Europe and "promises to have a great impact" on the textile industry in this country.

The Rocket coreless package can be made in almost any length up to 30 inches, weighing approximately nine pounds, depending upon the type of yarns that are wound.

The Delerue winder producing the package is suitable for practically all counts of cotton, woolen and worsted yarns as well as synthetic fiber yarns. The giant packages can be used for dyeing, circular knitting, and V-bed flat knitting.

In Europe, according to Mr.



Jumbo size package at left compared with normal yarn cone.

DeLeo a number of plants use the Rocket packages for dyeing. Those plants, he said, get uniform color throughout the package because of the even density of the package. Identical penetration of the dye liquor is pos-

sible over the entire length of the package, he said. Because of the patented method of the crossing motion, ribbon effects in the package are eliminated.

In addition to the advantages claimed in dyeing, it is not necessary to rewind the yarn after dyeing, since the same package can be used in subsequent processes.

Finishing

Steam Pressing Unit For Knitwear

Hoffman Maschinen GmbH, Koln - Mulheim, Germany, has developed a new steam press for knitted garments. It has been specially designed for small and medium size factories.

The machine, Model ES/24K, consists of a steam table with sail cloth covered press frame. There is an electrically operated steam boiler, a hand pump, and a water tank. The latter is set up near the steam table. There is also a suction device. All these various parts are connected by means of the necessary pipes and the equipment can be made fully operational by connecting up at three points only.

The electric steam boiler is fitted with six heating elements. The hand pump is set up close

to the steam table and so is the water tank. The latter can also be hung up on the nearest wall.

The drainage assembly runs from the boiler to the drainage channel. If required, the equipment can be supplied with an electric feed pump instead of the hand pump. This pump can be fitted next to the steam table or next to the water tank.

The electric steam boiler can be delivered in a fully automatic variety so that the machine then operates with automatic pressure and water control. The suction attachment is connected to the steam table by means of the necessary piping.

A ventilation duct leading to the outside of the building should be connected to the opening provided for this purpose on the table.

Another interesting piece of finishing equipment produced by the same company is its automatic steam dummy, Model Q/AD. This finishing machine is suitable for steaming and drying knitted dresses and similar garments. Model Q/AD is fitted with an adjustable ventilator and can be swivelled 360 degrees. It is marketed in America under the trade name Hi-Fashion.

(Continued on Page 42)



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Warp Knitting Principles

Pattern Scope Of Warp Knitting Equipment—Part 13

By A. REISFELD
Director, Research and Development
Gehring Textiles, Inc.

IN the previous articles of the series we discussed the pattern effects produced by such mechanical means as modification in knitting elements movement, jacquard control, cut presser techniques, fall plate attachment, and variation of warp sheet tension. Now, we shall consider the application of the yarn itself as means for creating novel designs.

Any yarn has a number of primary variables like denier, color, luster, twist, crimp, surface texture, shrinkage potential, number of filaments, staple length, etc. Each of these variables is capable of producing certain pattern effects. The yarn variable most frequently capitalized upon is color.

Advantages of Color

In the hands of a skillful designer, color whether in form of dope-dyed yarn or developed on cross dyeing, offers a tremendous scope. Innumerable patterns whether geometric or fancy may be knit with ease and economy. Even the basic lapping movement of jersey when used in conjunction with colored yarns will lead to stripe designs perennially popular in the outerwear trade.

The same can be said with regard to almost any of the above-mentioned yarn variables, although they do not approach color in importance or frequency of application.

The primary yarn variables are further supplemented by modifications imparted to them through mechanical or chemical processing. Almost any yarn, whether cellulosic or synthetic can be processed by chemical or mechanical means to give it such characteristics as loft, stretch, torque, crimp, non-shrink property, loopy or abraded appearance, dye resistivity, space saponification (acetate), etc.

Chemical Processing

The primary yarn variables when combined with chemical or mechanical processing place in the designer's hands a vast and stimulating choice of materials. For example, such a common yarn as 40 denier nylon is available in monofilament form, several filament counts and three types of luster. It can be thrown to any desired twist, lofted, Texturized, crimped, preshrunk to any degree, dyed to any color,

space dyed, immunized against further dyeing, plied with another yarn, etc. Similar combinations are available for other types of yarns.

A resourceful designer can use these possibilities in creating myriad novel pattern effects even when restricted to a conventional jersey ground. True, the pattern motif in this case will be a vertical stripe, but there are endless possibilities in laying out a stripe pattern and stripes enjoy greater popularity than any other design. Before going into a detailed description of how each variable and method of yarn processing can be used to the best advantage, let us briefly review them from the standpoint of their contribution to design scope.

Primary Yarn Variables

COLOR—Color is used for development of geometric or fancy patterns in contrasting or monochromatic scheme. Color is textile's best salesman and its scope only limited by designers ingenuity.

DENIER—Contrasting yarn deniers serve a similar purpose to contrasting colors. For example a 100 denier nylon pattern motif will stand out very well on a 15 denier ground by virtue of their contrast. The effect can be further accentuated by outlining the 100 denier motif with even heavier denier thread.

LUSTER—Any continuous filament yarn usually comes in at least two types of luster; viz., semi-dull and dull. Frequently, bright luster is available as well. Contrasting yarn luster may be used to a degree in the same way as contrasting colors or deniers. Generally, however, they are employed to accentuate a certain design area or pattern motif. Reflective and metallic yarns form a classic example of applying with advantage glitter and luster.

NUMBER OF FILAMENTS—The number of filaments affects the luster and covering power of the yarn. It also has a major influence on fabric hand, opacity and drape. The fewer the number of filaments, the more lustrous and less covering power of the yarn. Fabric knit from low filament count yarn will be featured by a high surface gloss, firmer, crisper hand, poorer opacity and reduced drape.

TWIST—Twist becomes a factor only when the number of turns per inch exceeds 40 or 50 as in case of crepe yarns. Twist tends to make the yarn duller and reduce its covering power. Fabrics made of hard twisted yarns (crepe) have a dry, crisp hand and pleasing texture.

SURFACE CHARACTERISTICS—The surface appearance of a continuous filament synthetic yarn may be modified by altering the skin characteristics and cross section profile of the individual filaments. The first is accomplished through chemical processing while the latter is carried out during the filament extrusion. A smooth surfaced, round cross section filament will produce a bright yarn of poor covering power. A serrated cross section and surface treated filament yarn will be featured by a duller luster, have more interesting appearance and possess better covering powers.

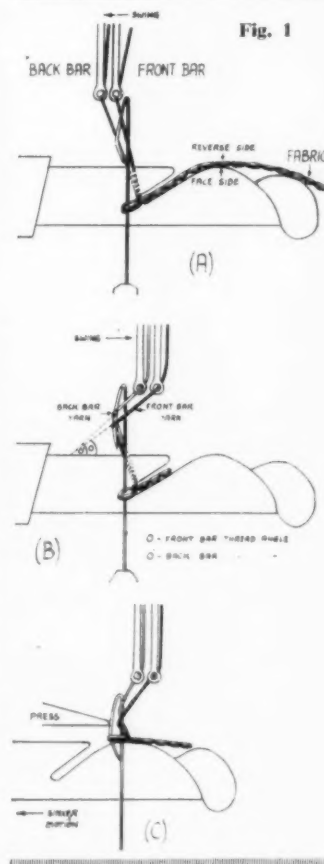
SHRINKAGE POTENTIAL—The propensity of yarn to shrink when exposed to heat or chemicals is occasionally made use of in development of raised and surface effects. Certain P.V.C. (poly-vinyl chloride) or other composition yarns of high shrinkage potential may be employed either on their own or in conjunction with ordinary shrinkage yarns. For example, two rayon ground bars produce the base structure while the P.V.C. yarn carried in a separate bar knits the pattern subsequently developed through exposure to heat. Recently, blended yarns containing two types of fibers of different shrinkage potential have been used for manufacture of pile fabrics. When subjected to heat treatment component of the yarn produces

a lower pile than the component of lesser shrinkage. This results in a graduated depth pile resembling natural fur.

So much for the primary variables. Now, let us review the yarn modifications arrived at through suitable chemical or mechanical processing.

TEXTURIZING—Crimping, bulking, lofting and similar processes alter the visual appearance and elastic properties of the yarn. As a result, the stretch, covering power and bulk of the yarn are considerably increased. For instance, a fabric made of, say, 40 denier Helanca will have an excellent stretch, bulk, cover, opacity, hand and a dull, attractive surface texture. The same fabric made of regular 40 denier nylon will have none of the above characteristics; its price, however, is much below the Helanca knit counterpart. The bulk or stretch yarns are some-

(Continued on Page 11)



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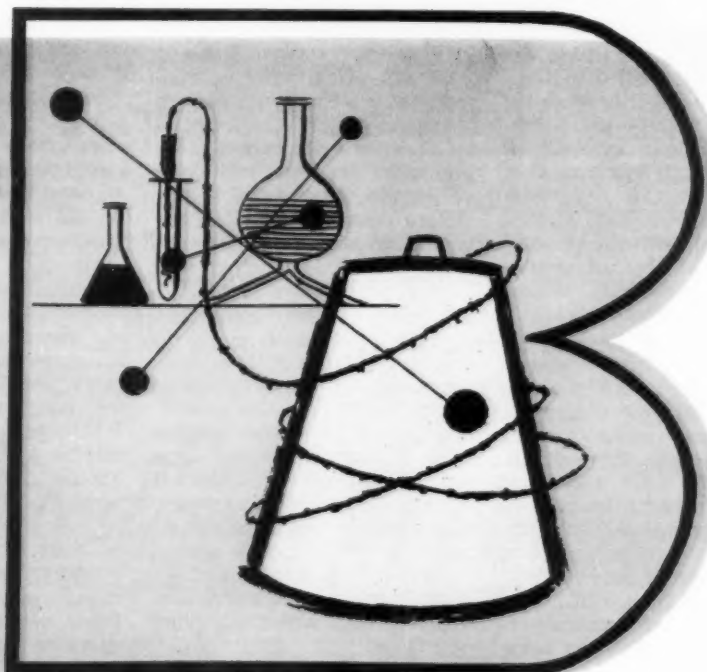
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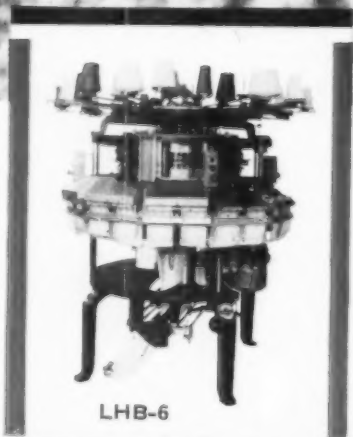
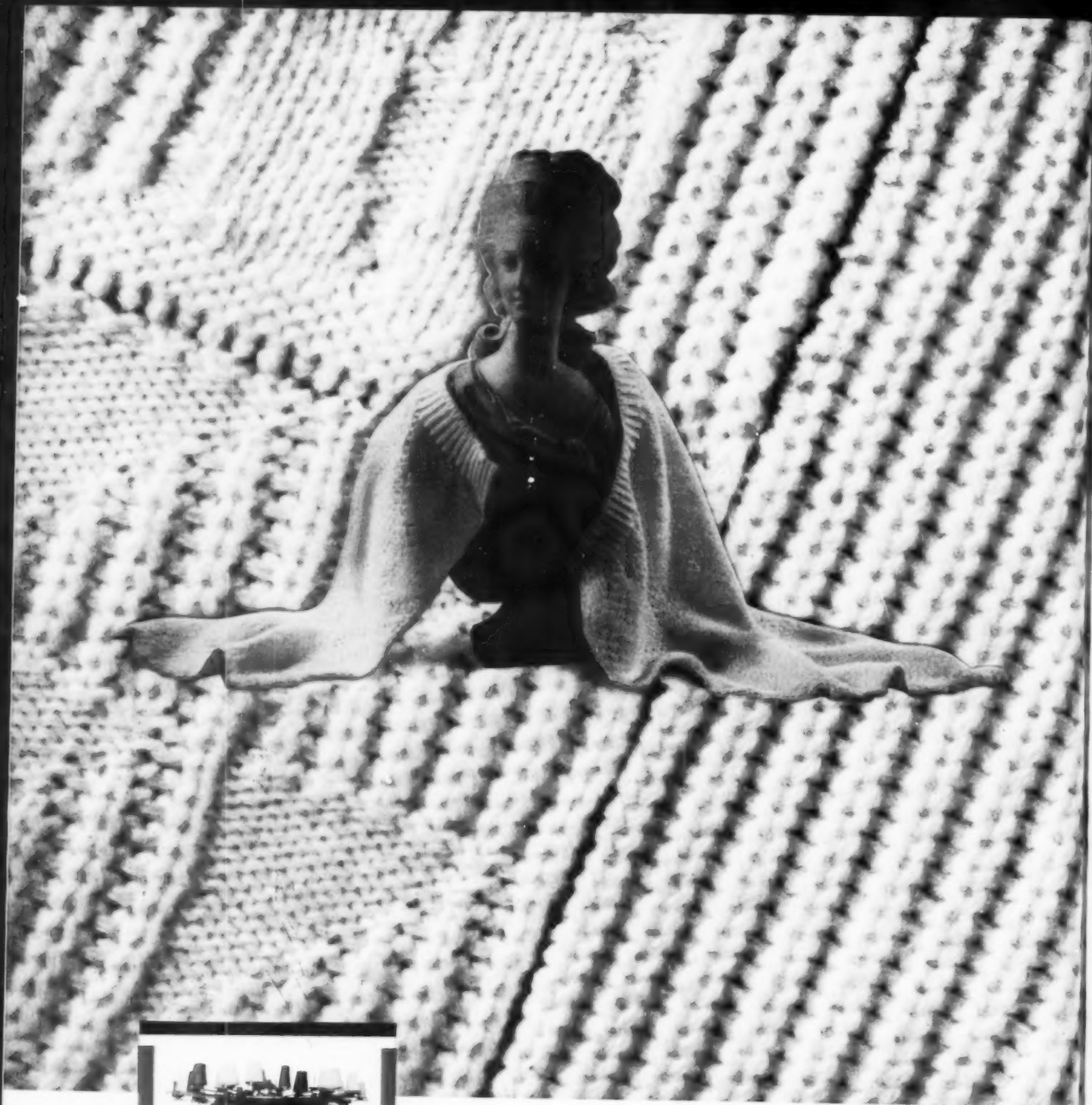
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times used to produce raised effects by pulling the fabric into knops, blisters, puckers, etc.

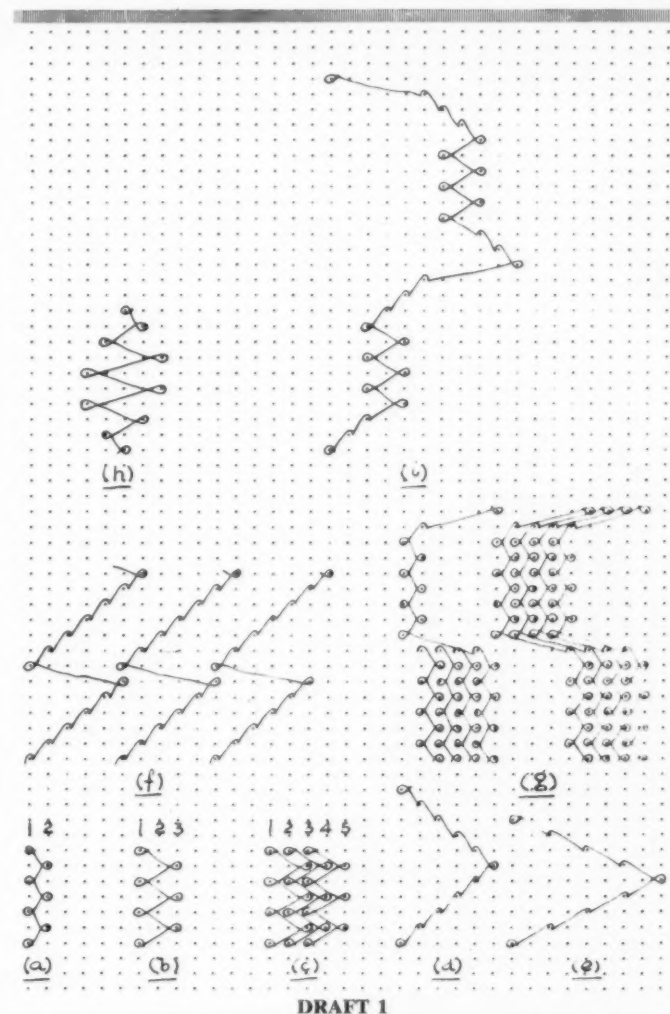
RUPTURE OR ABRADING OF YARN FILAMENTS—This improves the fabric bulk and opacity. The end result produced by this process is rather similar to that obtained through texturizing. In both cases the straight configuration of filaments in the strand of yarn is disturbed to render loops or loose filament floats which increase the bulk and opacity.

LATENT CRIMPING—This applies to a particular variety of acetate which develops a wool-like crimp after a boiling water treatment. The fabric knit from such yarn has excellent bulk, resiliency and an interesting texture.

THICK AND THIN YARN SPINNING—Certain types of continuous filament yarns may be spun to contain thick and thin portions spaced in random or regular intervals. The thick portions may have a form of slubs, flakes and nubs in uniform or irregular shape. These yarns when incorporated in a fabric impart to it a random surface appearance with the slubs protruding from the plane of the fabric.

FANCY YARN THROWING—Two or more yarns of similar or dissimilar nature may be thrown to form fancy yarn. This is generally done on ring twister frames by varying the rate of delivery of each yarn component to the spindle. Fancy yarns may also be made on weaving looms (e.g. chenille yarn), braiders or even tricot machines (zip-knit yarns). Fancy yarns always feature certain surface or color interest. They may have projecting nubs, beads or flakes coupled with corkscrew or undulating appearance. Certain yarn components may feature colored or contrasting luster strands. Modern twisting machines are capable of producing an endless variety of fancy yarns. The most frequently applied are known as slub, nub, splash, seed, ratine, coucle, loop, knickerbocker, corkscrew and many others too numerous to list. Fancy yarns are occasionally employed in warp knitting to impart a novel surface interest to the fabric.

SPACE DYEING—The yarn is intermittently dyed in regular or random intervals. The repeat of dyeing can extend up to 24



DRAFT 1

inches and as many as six colors may be put in combination with or without white in between. The length of each color and its sequence may be varied at will. The space dyed yarns introduce unusual color effects simply by threading them in appropriate guides depending whether the design is to be of an allover, stripe or figure type. These yarns are quite inexpensive and pose no problems in the warping, knitting or finishing stages of the fabric manufacture.

SPACE SAPONIFIED YARNS—Acetate yarns may be space saponified in the same manner as in the space dyeing process. The purpose of saponification is two fold: (a) To introduce on the saponified portion affinity to dyestuffs which normally have no effect on acetate; (b) to dissolve out the unsaponified portion of yarn after its conversion

into fabric. The first case offers a possibility of cross dyeing the goods in the piece. The effect will be the same as with spaced dyed yarns except that saponification enables cross dyeing to any desired color combination. The second case makes possible development of variable density fabric. Through immersion in acetone, the acetate (unsaponified) portion is dissolved away leaving only the saponified portion. At the spots where this occurred the fabric density and opacity will be reduced as to render an interesting random all over effect. Saponification of acetate is carried out by bringing the yarn in periodical contact with a mild alkaline solution (caustic soda) which regenerates the cellulose.

IMMUNIZING—This is a chemical treatment designed to impart to the yarn resistance to its usual classes of dyestuffs. A

yarn may be dyed to a certain color and then immunized to further dyeing. If a fabric containing the immunized yarn is piece dyed the yarn will not take the dye and so retain its original color. For example, a 70 denier nylon is dyed red and then immunized. This yarn is then warped along with a regular 70 denier white nylon, knit into a stripe pattern and subsequently piece dyed blue. The resultant fabric will feature red stripe on a blue ground. Thanks to immunization, the red colored yarn did not absorb any of the blue dye. In this way multicolor patterns on 100 percent nylon basis may be obtained through piece dyeing.

COATING—Almost any type of yarn may be coated with a clear or colored plastic film which lends it smoothness and luster to a controllable degree. In addition to plastic coating the yarn may also be metalized to gold, silver or any desired shade. Both plastic coated and metalized yarns are now rarely used in warp knitting.

Before concluding this section two more types of yarn should be mentioned—elastic and foam. The elastic yarns whether made of natural or synthetic elastomer are sometimes used for development of puckered, shirred, blister and similar kind raised effects suitable for swimwear, foundation garments, etc. The foam yarns made of polyurethane foam materials have so far found application where heat retentive bulk combined with light weight is required. The yarn is laid in between the stitches of the fabric in form of pronounced vertical ribs.

Having outlined the primary yarn variables and possible modifications brought about through processing, we shall now consider each one of them in greater detail.

Color

As stated before, color is the master salesman of textiles. A poorly constructed fabric sparked by a well-chosen color scheme will frequently prove a good seller, whereas quality merchandise featuring inferior color motif will usually end up on the closeout shelf.

Color may be introduced with advantage in almost every type of warp knit fabric. Special at-

(Continued on Page 15)



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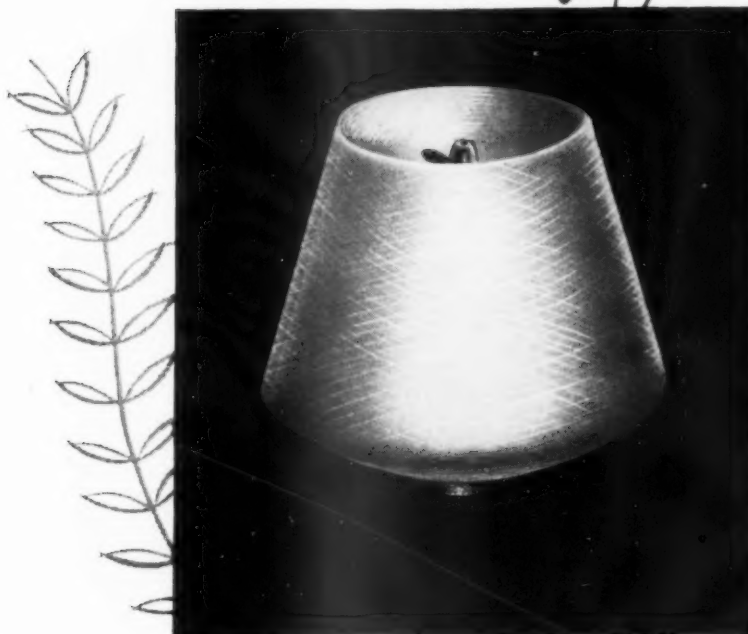
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Vol. 25

MONDAY, JUNE 18, 1967

No. 24

Annual Woolknit Fashion Showing Set For Thurs.

Reservations for the 11th annual fashion show held by the Woolknit Association, Inc., have been widely booked by retail buyers throughout the United States, it was announced by John C. Smith, president.

Winners of the 1957 Woolknit Design Award, chosen on the basis of a buyers' poll, will be announced following the banquet. The affair will be held Thursday evening in the Hotel Pierre Grand Ballroom and the program is expected to include sportswear department merchandise managers, buyers, resident retail buying office representatives and the fashion press.

We will also have a good group from wool trades in Boston and Philadelphia," Mr. C. Smith said.

No ready-to-wear knitters and designers will be admitted to the showing.

A 64-page Woolknit Annual for 1967, the largest yet, will be distributed at the show, at which special emphasis is to be placed on fashions in wool jersey by Wayne, Lebanon, Kelle and Atlanta. A group of "designer" fashions from leaders in the market will be included.

The show will be staged in live acts, carrying knitted wool apparel from lounging and lounging through "romantic" Nancy Craig will commentate the show for the sixth consecutive year, while the stage acts are being designed by Robertson & Dornell.

Four cold water showers—
 (Continued on Page 27)

FEATURES IN THIS ISSUE

Teltek-Princeton Novelty Yarns Being Estimated
 How Billing And Shipping Procedures Can Be Speeded Up
 Longest Knitwear System In Union's New Plant
 Materials Handling At Long Knitting Mills, New Marlborough
 Durable Anti-Static Finishes For Knitwear
 New Dye Plant Set Up In Cleveland Area

Bulky Knits Soar Into Leading Place At Metropolitan Juvenile Style Mart

By EDWARD KANTERWITZ

The bulky knit sweater, of cotton or wool, in condition of elegance, emerges as a main feature and featured item in the array of sweaters and other knitwear at the 1957 Back-to-school showing of the Metropolitan Juvenile Style Mart, Inc.

The exhibit, which will run until June 12, occupies five floors of the New York Trade Show Building and includes a wide display by knitwear manufacturers. Early in the showing representatives were already able to report action in such items as novelty knits—generally and generously spiced with fanciful stitches for a touch of textured effect and highlighted in white—beater-toned cut-draws and shippers, simulating the Sheraton look and rounded filament texture yarn classics, other knit-on or Tycron.

A shaded emphasis was being placed on bright new high shades for coordinated classroom wear with shirts, with a soft camel or maple, varying blues and grays lively for girls and teens and appearing conspicuously.

A new note in knitted headgear in the head-covering, be it head or clip-on, which fits out in color, black, and, perhaps,
 (Continued on Page 33)

Korzenik To Speak On Radio Tonight

Salvatore S. Korzenik, executive director and counsel of the National Knitted Outerwear Association, will participate tonight in a statewide broadcast over the WCHS network on unemployment insurance legislation. The Mayor of Birmingham, who will serve as moderator, will introduce Mr. Korzenik in New York City. The broadcast will be heard between 10 P.M. and 11 P.M. Elsewhere in New York State, it will be heard between 10 P.M. and 10:30 P.M.

The broadcast is designed to draw attention to the unemployment insurance legislation now up for consideration before a special session of the State Legislature. Governor Harriman had called the session after he had vetoed the Hughes-Adams Unemployment Insurance Bill on the grounds that it would penalize seasonal industries. Prior to the Governor's veto, the fight against the measure was spearheaded by the Knitted Outerwear Manufacturers Association, Eastern district, and the various apparel industry trade associations. Mr. Korzenik served as spokesman for thirty trade organizations opposed to the measure during public hearings in Albany.

Sweaters Star In Father's Day Gift Buying

Sweaters are playing an important role in Father's Day gift buying in department and men's wear stores, a survey indicated. In featuring sweaters for Father's Day, most retailers are concentrating on lower price lines, which are within the scope of the average Father's Day gift budget. Sweaters priced up to \$4.95 are reported doing well, although some business also is being done up to the \$10 level.

Cotton is reported to be one of the top knits in sweaters for Father's Day merchandising. Retailers are getting action in cotton pullovers at the \$3.95 level and in cotton-sweater styles at \$3.95.

Favored Shades
 Among most popular colors are blue, red, beige, charcoal and light gray. The sweaters are being featured as Father's Day gifts in newspaper ads, window and interior displays, direct mail pieces and on TV spots.

After the success of Father's Day business, men's sweater retailers anticipate that selling will go into something of a seasonal decline during July and August. It is difficult to maintain sweater volume during late weather, they point out, although some promotional effort will be focused on men's light weight sweaters for cool vacations at camps and cottages on the water.

Men's sweater retailers said their business during the first
 (Continued on Page 49)

Advertisers and their agencies know this, and consistently schedule more knit goods supplier advertising in the "TIMES" than in all other trade publications combined.

Within the well-read pages of the "TIMES" suppliers make the best possible impression on

their customers and prospects, and draw the most favorable attention to their products and services. Shouldn't you, too, team up with the "TIMES"?

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tachments and even complex machines have been evolved to capitalize on the lure of color. It would be utterly futile to attempt to discuss all the methods available for injecting a color theme into the various warp knit constructions. There are so many ways and means for accomplishing it. Most of them have been covered to some extent in the preceding articles of the series. Therefore, we shall merely consider the basic principles of applying color on warp knit basis.

SINGLE BAR FABRICS—Attractive color effects may be obtained on a single bar ground, although such constructions are not commercially acceptable when made in fine denier filament yarns due to lack of stability and run resist qualities. However, when made of staple or heavy denier yarns, single bar fabrics become reasonably stable and runproof.

Designing in color is quite simple here on account of the very limited scope. Since there is only one bar the color threads will lap at all times in unison with the ground threads. Thus, the lapping movement of the guide bar and hence the characteristics of the fabric are determined entirely by the design requirements. If long underlaps are used the fabric will be dense and heavy. A combination of long and short underlaps will produce varying density structure with unsightly horizontal stripes appearing whenever there is a change in underlap length.

The simplest single bar color design is a stripe schematically illustrated on Draft 1(a). It will be seen that the single needle underlap movement produces a stripe extending over two wales (1 & 2). The stripe is not "clean" as the loops of ground threads alternate with the color loops on wales 1 & 2. Increasing the underlap length only detracts from the stripe definition. A two-needle underlap shown on Draft 1(b) has wales 1 and 3 composed of alternate color and ground loops while wale 2 consists of ground loops exclusively. This lends the stripe a rather broken up appearance. By threading two or more ends in adjacent guides it is possible to produce a solid stripe but its outer wales will still be broken up as before. Draft (c) shows a stripe produced by threading three color ends in adjacent guides. Only

wale (3) is composed entirely of color loops while wales 1, 2, 4 and 5 contain color and ground loops.

Another simple color design is a zig-zag made by Atlas traverse shown on Draft (d). A single needle underlap Atlas will render a "clean" well defined zig-zag. The same movement in a two-needle underlap—Draft (e) will result in a broken up zig-zag since alternate wales contain ground loops only.

Diagonal and twill designs in color may be developed as shown on Draft (f). The threading applicable to (f) is—one color ends, four ground ends. The five-needle underlap produces long floats which make the fabric dense and ridgey on course where they occur.

So much for linear patterns. A certain amount of geometric and fancy motifs in color can also be made on single bar basis. As before; their definition is poor and presence of long underlaps impairs the appearance of the fabric.

A reasonably good check pattern, for example, may be produced using movement shown on Draft (g). The threading is four ends of one color and four ends of the other. It will be seen the loops in extreme wales of each check are alternating in color which detracts from pattern definition.

Enclosed figures like circle, ovals and their derivatives normally associated with two-bar basis may be imitated on a single bar. A circle-like shape is developed with a movement shown on Draft (h). In order to convert the circle into an oval, the four-needle underlap is expanded accordingly (in walewise direction).

A sample of a fancy enclosed figure is shown on Photo 1 and its movement on Draft (i). The threading is one end of one color and eight of the other. The single bar color patterns with the possible exception of those produced by Atlas movement require a fairly heavy yarn (minimum 100-150 denier) to be effective at all. A fine denier yarn will render a translucent construction and thus reveal the underlap floats between the loops. This, of course, will ruin whatever definition the pattern might have otherwise had. In any case, fine denier materials are objectionable because they tend



PHOTO 1

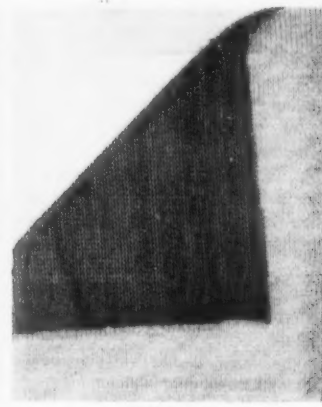


PHOTO 2

to accentuate the difference in fabric density and increase the hazard of splitting or running.

TWO BAR FABRICS—The pattern scope in color becomes tremendously enlarged with the addition of the second guide bar. Two bar basis yields an opaque, smooth, run-resist construction of uniform texture and density. The loops are vertical and well defined unlike in the case of single bar fabrics where the loops slope according to direction of the lapping movement.

Since every needle is lapped now with two threads, one from each bar, two superimposed loops will be formed around each needle. They are superimposed on top of each other so closely that it is almost impossible to distinguish the individual loops unless they are in vividly contrasting color. The phenomenon of loop superimposing is called "plating."

Any consideration of two-bar color work must necessarily begin with discussion of plating as the latter plays a decisive role in development of pattern effects in color.

Diagram 1 shows three stages of loop forming action which should be helpful in understanding how plating takes place. The front bar yarn is shaded dark to facilitate following its path. At (A) the guide bars have swung to the rear of the machine in anticipation of the overlap shog. At (B) the guide bars have swung to the front of the machine after performing the overlap shog. It will be observed the yarn is now wrapped around the beard in such a way that the front bar thread is laid lower than the back bar thread. This should be understandable con-

sidering the front bar guide and its thread being closer to the needle and coming in contact with the beard ahead of the back bar thread as the guides swing towards the front of the machine.

The greater tension of the back bar warp and the smaller angle θ the front bar thread is inclined to the horizontal helps to maintain its position throughout the further stages of the knitting cycle.

After completion of guide bar swing, the needles are given a secondary lift as to cause the threads to slide off the beards onto the needle stems. The needles then descend, presser bar comes forward to close the beards and sinkers recede to lift the loops of the last course onto the closed beards as shown on (C). The threads are thus trapped between the needle stems and the beards while still maintaining their relative position. Next, the last course of loops is cast off and the threads pulled through them as to form a new course.

It should be easy to visualize now the front bar threads formed into loops facing the floor with the back bar loops facing the ceiling. The loops are thus plated one on top of the other. Since the fabric comes off the needles with the reverse side towards the ceiling or the operators eyes, the front bar loops will appear on the face of the fabric and the back bar loops on the reverse. Although the back bar loops are placed on the reverse side of the fabric, their color is not clearly visible. They are partially obscured by the connecting floats of the front bar positioned on top of the back bar float.

(Continued on Next Page)

This may be explained in the following way: With the guide bars at the front of the machine, the back bar is closer to the needle stems than the front bar. Now, when the guide bars swing through the needles after completion of the underlap shog, the back bar yarn will be laid across the needle stems before the front bar yarn. The latter will, therefore, be placed on top of the back bar yarn. This position of yarns is maintained for the rest of the knitting cycle and results in the front bar floats covering those of the back bar.

It may be a little hard to form a mental picture of the above action. The best plan would be then to spend a few minutes turning a machine over by hand while observing the thread movement.

All we said up to now is based on the assumption that both bars move in unison, i.e. underlaps and overlaps are made in the same direction. Most of the fabrics, however, are knit with the bars lapping in opposition to each other which may affect the plating relationship of the yarns. When the overlaps are made in opposite direction, the threads of the guide bars across at the beards instead of running almost parallel to each other as shown on Diagram (A).

Although it is still possible to make the front bar threads cross below those of the back bar, there is still a good likelihood of this order reversing itself. In such case the front bar yarn will no longer plate completely on top of the back bar yarn but allow the color of the latter to emerge on the face of the fabric. Each loop visible on the face will thus contain the colors of both bars and lend the fabric a melange appearance. In order to avoid the above and restore as far as possible perfect plating of the yarns, two basic adjustments must be carried out:

1. Somewhat deeper setting of the front guides to reduce the thread angle and place the yarn lower still on the beard.

2. Increase in back bar yarn tension to prevent its rolling under the front bar threads.

Under certain circumstances it is possible to make the back bar yarn plate on the face of the fabric. This is accomplished by causing both guide bars to move in unison for their overlap shog

and lowering the back guide bar which reverses the order of plating. An example of such construction is shown on Draft 2(a). (See Part 13a in this series to be published in Jan. 18, 1960 issue.) It will be seen the overlaps are made in unison and the underlaps in opposition. This is essentially a modified jersey lap. If the back bar is threaded e.g. with black yarn and the front bar with white, the face of the resultant fabric will be black and the other side white.

The plating will be far from perfect in this kind of fabric. Some front bar color will inevitably be discerned on the face of the fabric. With sufficient care in setting of the guide bar height and adjustment of runner length a satisfactory reversible effect may be produced. A reversible type fabric made in the above described way is shown on Photo 2.

A perfect plating resulting in truly reversible construction is feasible through application of special technique and machine mechanism. The technique is based on the principle of drawing the loops of each bar on separate courses. In this way the loops are placed and kept on the needle stems in their correct relative position without and danger of becoming crossed or reversed as to disturb the plating order.

The machine must be equipped with a knock off attachment capable of taking the presser out of action on alternate courses. The color or material to appear on the face of the fabric is threaded in the back bar.

The color to appear at the reverse side of the fabric is threaded in the front bar. The lapping movement is carried out in the following way:

1. The guides swing between the needles toward the back of the machine. The back bar only performs the overlap shog while the front swings idly through.

2. The guides return to the front of the machine with the back bar threads only wrapped around the needles.

3. The back bar performs an underlap shog, while the front bar remains static. The needles now are raised for the secondary lift and taken down to knockoff position. No new loops are formed, however, because the needles were not pressed. The presser bar has been put out of

action on this course. The needles are raised to starting position for the next course with the back yarn wrapped around their stems.

4. The guides swing again through the needles, but this time the front bar only makes the overlap.

5. The guides return to the front of the machine and the front bar only performs the underlap shog. The back bar receives no shog motion during this course.

6. The needles are raised for their secondary lift and the front bar yarn slides on the needle stems above the loops formed by the back bar. The needles are finally taken down, pressed and both sets of loops knocked over together as to form a new course of plated stitches.

Since the back bar yarn was placed ahead of and lower than the front bar yarn, it will appear

on the face of the fabric while the front bar yarn will be visible only on the reverse side. Chain notation for a reversible jersey type fabric reads:

Front bar 2 - 2, 2 - 3/ 1 - 1, 1 - 0.

Back bar 1 - 0, 1 - 1/ 1 - 2, 1 - 1.

This method of manufacture of plated fabrics was extensively used before War II and still survives to a limited degree in some European specialty mills. Two different materials e.g. silk and cotton can be so combined as to have perfectly clean silk face and cotton back or vice versa. The productivity for this type of plated goods is only one half of what it would be for conventional method of knitting. This is because two machine revolutions are required for one course of loops and also due to speed limitations imposed by the knockoff attachment.

Warp Knitting Machine Employing Carding Machine Laps Introduced

A warp knitting machine which incorporates loose fiber off a spinning card into the knitted structure has recently been developed in Czechoslovakia. The machine has been designated Arachne.

The yarn for knitting the ground structure is supplied from sectional warp beams to specially-constructed tube needles. The hooks of these needles are fitted with a point in order to pierce the fiber lap. The needle tongue for opening and closing the needle hook moves inside the stem of the needle in the same way as the conventional compound needle.

The fiber lap is situated at the upper part of the machine and is unrolled from a roller and taken by means of a moving band to the needles. The sectional warp beams are arranged, as on the English type of Milanese knitter, at the lower part of the machine.

In general construction, the machine is strong similar to a Raschel machine. This is especially true insofar as yarn tensions and the fabric take-up mechanism are concerned.

The machine uses guide bars and the normal type of warp knitting machine sinkers for knocking over and holding

down. These sinkers serve to hold the fiber lap during the piercing action of the needles.

The Arachne machine has a cruising speed of 300-500 courses per minute. It can knit with one or two guide bars and the band for transporting the lap to the needles can carry one or two laps. It is claimed that the time for entering the warps on this machine has been shortened by 70 percent.

A wide range of fabrics can be produced on the Arachne machine. Among these are insulation material, padded fabrics for jackets, packing, lining for ladies' coats, and blankets. For the future it is planned to combine the production of the fiber lap with the actual knitting process, perhaps in a similar way as the American Wildman machine deals with the problem.

Scott & Williams Assigns Sayewich To N. Y. Office

Stephen P. Sayewich, sales engineer for the Brinton Division of Scott & Williams, Inc. has been transferred to the New York office of the company in the Empire State Building. He will cover the New York and New England areas.

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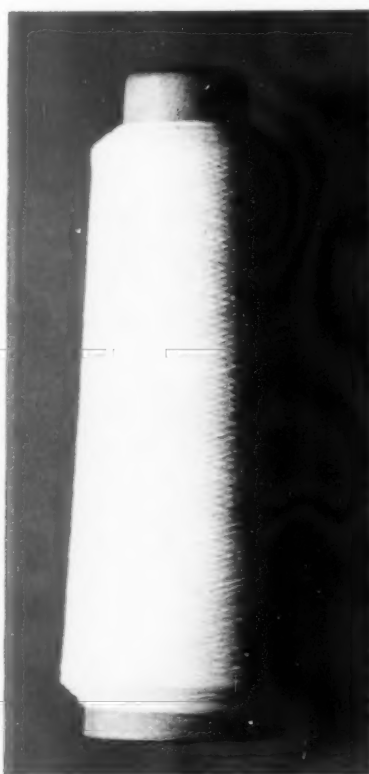
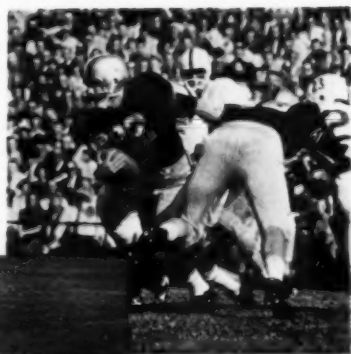
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with its high elongation, great
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With this new strength in fine dimensions, the new Lastex supplements and extends the range of all other famous Lastex yarns; puts gentle elasticity into fine, sheer fashion fabrics; suggests a whole new kind of comfortable clothes that fit without strain for men, women and children.

This new ultra-fine Lastex not only offers high tensile strength and greater chafe resistance, but is highly resistant to light, ozone and solvents. It has good modulus retention, quick stretch recovery and shows excellent results in standard finishing and dyeing procedures. Thanks to its remarkable Vyrene core and fine nylon cover, this new Lastex yarn is

long on wear and stands up remarkably well in washing tests.

After long testing in our pilot operation and with experienced manufacturers of elastic fabrics and garments, production of this new Vyrene elastomer is now being expanded in a special plant. Its completely new facilities will gradually increase market supply of this ultra-fine Lastex yarn and supplement the present large volume of Lastex yarn with Lactron® core. Lactron, the original extruded latex strand created by U. S. Rubber in 1925, will continue to be the heart of a wide range of Lastex yarns for all types of elastic textiles except the finest and sheerest fabrics and garments.

*Vyrene is the registered trademark for U. S. Rubber's spandex fiber

WHAT IS "VYRENE?" Vyrene is the registered trademark for U. S. Rubber's new extruded elastomer which, as a monofilament fiber in very fine sizes, is used as the core of new Lastex yarn constructions.

HOW WAS VYRENE CREATED? Vyrene is the result of 10 years' search for an elastomer with the high stretch of natural rubber, yet superior in certain important properties. U. S. Rubber's scientists, capitalizing on the most significant postwar developments in rubber, plastics and chemicals, achieved a new polyurethane compound in 1957. Extruded in fine monofilament and covered with high-strength nylon, this new core has become the basis of new ultra-fine Lastex yarns.

TECHNICAL INFORMATION AND IMPORTANT SELLING POINTS

ELONGATION—Vyrene is compounded to the high elongation achieved with natural rubber and is very constant in this value. **CHAFE RESISTANCE**—superior to any other presently known compounds of natural or synthetic elastomers. **TENSILE STRENGTH**—substantially better than good rubber thread. **SET**—extremely small change in length after repeated flexing; somewhat superior to natural rubber thread and substantially higher than any other known elastomer in this vital quality. **OXIDATION RESISTANCE**—outstanding score assuring long life and making practicable extremely fine elastic thread. **CLEANING AND LAUNDERING**—virtually unaffected by commercial dry cleaning solvents and has good launderability. **PERFORMANCE IN FABRIC**—thanks to high tensile and superior chafe resistance, Lastex yarn with Vyrene core has good sewing performance, is excellent for knitting and weaving.

INFORMATION ON AVAILABILITY AND USES

Special production facilities are now being established to extrude Vyrene in greater volume and meet market demand for fine size Lastex yarns with this new elastomer. For the present, production will be mainly for lightweight fabrics and new garment applications. At the same time, the full range of Lastex yarns with *Lactron® extruded latex core* will be made in volume for the producers of the proven and successful elastic fabrics on which the corset, swimsuit, hosiery and many other trades now depend.

"VYRENE" IS A SPANDEX FIBER UNDER THE TEXTILE FIBER PRODUCTS IDENTIFICATION ACT

Spandex is the new generic name adopted by the Federal Trade Commission to identify "Vyrene" and other synthetic elastomers that are chemically different from natural or synthetic rubbers. To establish how "Vyrene" spandex fiber can or must be identified under the Act, manufacturers and retailers must refer to specific rules that apply. This is because regulations on identifying fibers in *elastic fabrics* vary with types of products, construction, amount or area of use.

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Manufacturers and retailers are encouraged to use these valuable and helpful registered trademarks provided (1) they apply only to U. S. Rubber Company products, (2) they are used with proper meaning as names for *yarn or thread* and (3) they are identified as registered trademarks in the usual manner. When either of these trademarks is used in any advertising or labeling, proper fiber description of any particular fabric or garment must also follow any rules of the TFPI Act that apply.

FOR FURTHER INFORMATION, CONTACT LASTEX YARN DEPARTMENT

Textile Division



United States Rubber

Rockefeller Center, New York 20, N.Y.



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Full-Fashioned Knitting

Aluminum Device Holds Down Yarn During Fashioning

NEEDHAM HEIGHTS, Mass.—An ingenious attachment consisting of a one-inch square of aluminum is employed by the Benjamin Moseley Company here to keep yarn down in the throat of the sinkers of a nine-gauge full-fashioned machine during the fashioning process. The implement which is bent at a right angle and slotted to accommodate the six points of the narrowing finger, is said to be particularly effective during the double dip of the narrowing operation.

When slipped into place, the attachment prevents the yarn from riding up on the sinkers during the upward movement of the finger points. The implement was developed by Arthur Kendall, a mechanic in the full-fashioned knitting department, and William Gerold, plant general manager.

Converted From 45

The nine-gauge, full-fashioned machine is a converted 45 gauge hosiery Cotton's Patent machine. It was redesigned for Moseley by Fred C. Good & Sons, Philadelphia. The machine has an output capacity of 500 to 600 dozen sweaters per week, rated on an eight-hour day. It is part of a set-up of two other 24 gauge full-fashioned machines.

Full-fashioned sweaters are also turned out by the company on 11 hand-operated V-bed flat machines. Moseley has recently added three new Queens seven-cut flat machines to supplement the output from a group of Grosser V-bed units and of its flat-bed links and links machines.

Has Own Building

The company occupies 11,000 square feet at the original location where it was founded on Highland Avenue by Benjamin Moseley in 1911. The main building is a one-story extension of an old two-story dwelling. The receiving room, located in the basement, is an area of about 3,000 square feet equipped with temperature and humidity controls for fine grade yarn storage.

The firm has changed hands twice since its founding and was acquired by a New York group about eight years ago. It is managed by Mr. Gerold, who formerly supervised the installa-

tion of knitting equipment in Germany and Austria for a Texas organization and who, at one time, also supervised the plant construction and machinery installation of a Dory Knitting Mills unit in Costa Rica.

Added Orlon

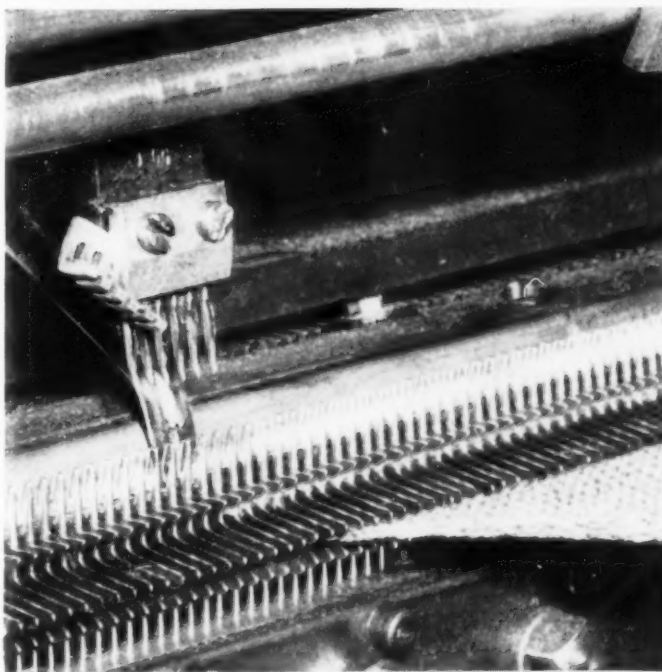
Hitherto, the company specialized in natural fibers such as Shetland, mohair and fine wool grades but in the past few months has gone into production of 100 percent Orlon sweaters.

A spokesman for the company said that contracting commitments have increased some fifteen percent during the past year and that there has been an increase of about five percent in the output of children's knits. In September, this firm went into production on three children's cardigan styles.

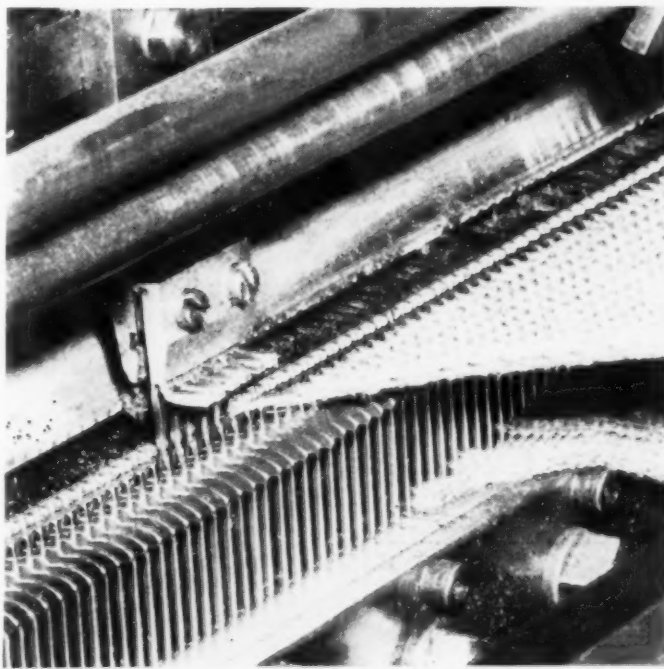
For years, the Moseley company catered to the college trade and the better specialty shops, primarily in New England. This selling area has now been expanded to encompass areas from the Great Lakes to Baltimore and Washington, the entire Southeast and the eastern seaboard from Maine to Florida.

Mostly Full-Fashioned

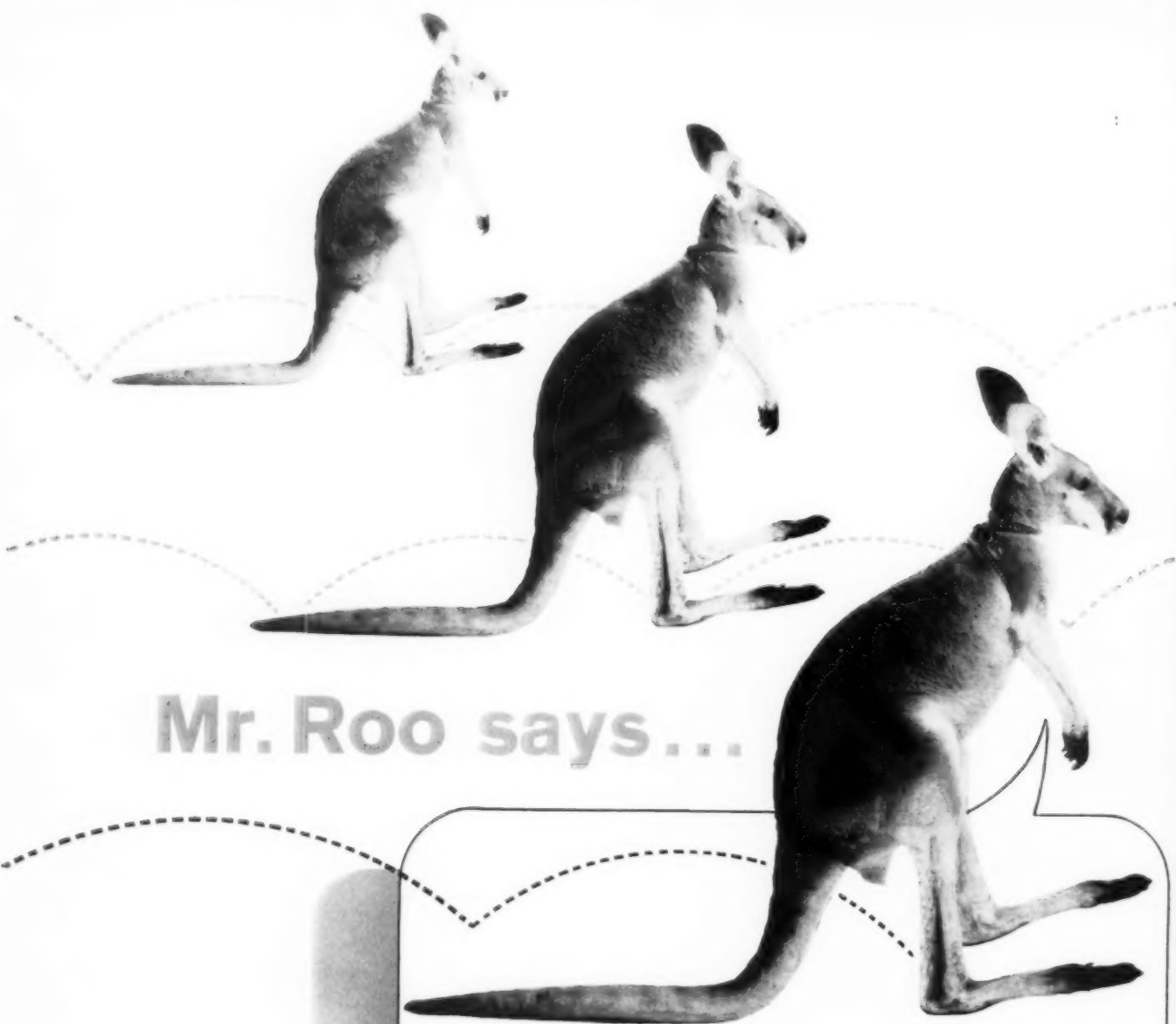
About 75 percent of the present production continues to be full-fashioned sweaters for women for which the company uses substantial quantities of mohair and wool, blended on 75-25 percent basis. Shetland is used only for men's wear in shades of blue, black and green heather, beige, charcoal, oxford and cranberry and also bourbon, wisteria, chartreuse liquor and blue and green charcoal. Women's styles adhere pretty much to the classics in solid shades relying on bulky cable twists for contrast.



Aluminum square bent to a 90 degree angle and slotted to accommodate six points of narrowing finger is used to tamp down yarn on nine gauge full-fashioned knitting machines at Benjamin Moseley Company. Photo above shows the device out of action.



The yarn holding-down implement is shown here in use. It prevents yarn from riding up on sinker throat.



Mr. Roo says...

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Celanese Buys Darvan Fiber From Goodrich

(Continued from Page 1)

The nitrile copolymer that results is then turned into fiber via a spinning process.

Although Darvan has frequently been confused in some trade circles with Orlon and other acrylics, it has no chemical relations to these fibers. It contains no acrylonitrile and, in fact, is the only U.S.-made synthetic fiber that is classed under the Nitrile generic designation under the rules and regulations set up by the Federal Trade Commission for the Textile Fibers Identification Act.

Darvan is currently being produced in staple and tow form in 1.5, 2, 3, 4.5, 6 and 12 denier per filament. Staple length ranges from one inch to 4½ inches. The fiber is available in two forms un-set and crimp-set. Properties of the latter resemble somewhat the high-shrinkage Orlon staple produced by Dupont for high-bulk yarns. However, a true high-bulk yarn cannot be produced with the crimp-set Darvan. Development of high-bulk yarns of Darvan, in fact, was believed to be one of the areas which Goodrich technologists have had under study.

The acquisition of Darvan according to Harold Blancke, Celanese president, will substantially expand markets for Celanese chemical products and further diversify his company's line of contemporary fibers.

"B. F. Goodrich is confident that Celanese will be successful in achieving the full commercial potentialities of this unique new fiber," J. W. Keener, Goodrich president stated. "Celanese has the outstanding merchandising abilities required and Darvan fits ideally into their full family of fibers."

Harry Keller Killed In Miami Plane Crash

(Continued from Page 1)

the time of his death in 1940. The mill produced men's and boys' as well as women's sweaters. He was 61 years old; Mrs. Keller was 58.

The Kellers were en route to Miami for a two-weeks vacation, said to be the first in 10 years.

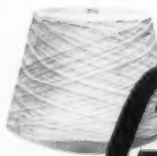
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the test is in the touch

"Everglaze" Marketing Division, Wilmington, Delaware, supervises the international merchandising of the "Ban-Lon" and "Everglaze" trademarked products of Joseph Bancroft & Sons Co.

FACT

1

Quality-Control Program

For your protection, all garments which are authorized to carry the famous "Ban-Lon" trademark must undergo and pass rigid testing for quality and performance

FACT

2

Skilled Technical Staff

The skilled technical-service staff of the Bancroft Company and its licensees is at all times ready to give you assistance and advice in carrying out your "Ban-Lon" program

FACT

3

Nation-wide Marketing Program

Thoroughly-trained marketing personnel continually visit stores throughout the country to acquaint merchandise managers, buyers and sales people with latest developments in the "Ban-Lon" program

FACT

4

Unique "Ban-Lon" Properties

Some of the unique and desirable properties possessed by "Ban-Lon" garments and fabrics are: • soft, luxurious hand • excellent stability • remarkable absorbency • resist pilling, wrinkling • added bulk with less weight • sharp, bright colors

Knitted Yardgoods

Princeton Offers Plaids, Stripes In High-Pile Fabric

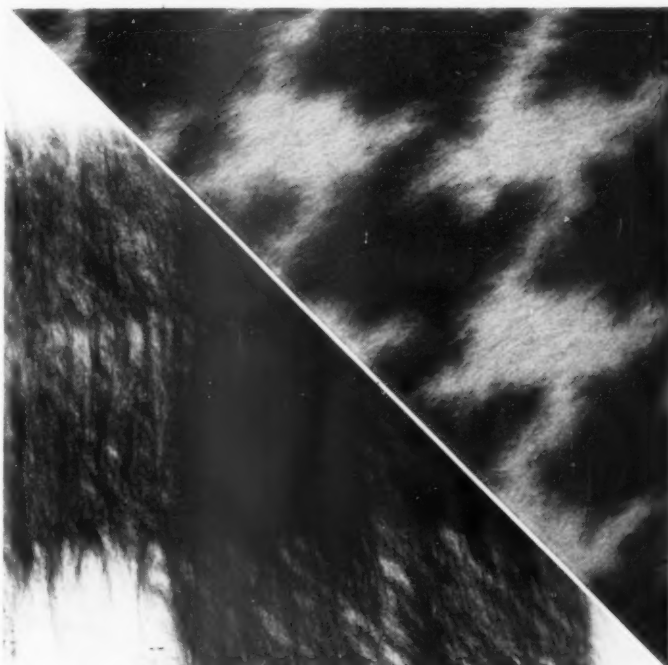
High-pile fabrics are being highlighted by Princeton Mills for the fall 1960 season. A wide array of synthetic and natural fibers is utilized in the collection to create interesting pile and shaggy cloth.

Especially important and unusual are beautifully printed high-pile fabrics offered for both linings and outerwear. The frosted look is noteworthy, as are fur-emulating fabrics.

Loden and gold were the colors of primary importance during the past year and Princeton has carried them over to its fall line. Also shown are willow green, an off camel, rust and purple.

Fur Look Important

The important fur look is carried out by Princeton in a Verel and Dynel blend cloth with a Dynel back to simulate mink. This high-pile fabric has a soft hand and is particularly striking



The shaggy look is prominent in Princeton's argyle pattern, left. High pile hound's tooth, right, also by Princeton, is offered in a number of interesting color combinations. Both fabrics are of Orlon.

in shades of brown.

Orlon and Dynel are blended in a high pile cloth which looks like seal. New for the coming

season is a 100 percent Dynel fabric with an Arnel back. It gives the appearance and has the hand of baby lamb skin.

Beaunit Introduces Knits of Vycron

The fabric division of Beaunit Mills, Inc., has introduced a line of knitted yardgoods incorporating Vycron, the polyester fiber produced by the company's fibers division. The new knits represent a blend of Vycron with Acrilan, Chemstrand's acrylic fiber, and cotton on an equal basis.

A group of solid color and cross-dyed heather jersey fabrics incorporates an intimate blend of Vycron and Acrilan. These two fibers also are combined in a mesh-type fabric as well as in a group of waffle knit structures in solid colors and heathers.

The waffle knit construction also comes in a blend of Vycron with cotton. This same combination is also executed in a pin dot jersey material.

Beaunit's Vycron-content fabrics are all produced on the circular knit basis and come in 60-inch widths. In addition to soft hand, exceptional strength and complete washability, the fabrics are said to be virtually free of pilling.

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Mill News

Ashe Lays Financial Difficulties To Action Initiated By Bancroft

PHILADELPHIA, Pa.—The financial problems of Shelley Knitting Mills, Inc. and its affiliate, Shelley Sportswear, Inc., were attributed by John M. Ashe to his company's litigation with Joseph Bancroft & Sons Co. over the use of the Ban-Lon label on sweaters manufactured by Shelley of the crimp-textured yarn.

Both Shelley firms on December 28 filed separate Chapter XI petitions in the Federal District Court, here.

In September, 1958, the Federal District Court in this city granted a preliminary injunction against the Shelley firms prohibiting use of the Ban-Lon label in the suit brought by the Bancroft company. This decision was later reversed by the Third Circuit U. S. Court of Appeals.

In an exclusive statement to KNITTED OUTERWEAR TIMES, Mr. Ashe stated:

"In the past year, we have

made every effort to fully meet our obligations. Our financial problems arose as a direct result of the preliminary injunction granted at the request of Joseph Bancroft & Sons Co. This injunction prohibited us from selling good and marketable sweaters, which we had manufactured under a license agreement, with a label bearing the trade mark, Ban-Lon. We were therefore obliged to dispose of heavy finished goods, and work-in-process inventory at a very substantial loss.

"As a result, we did not have sufficient funds to meet our obligations. While we made considerable efforts to procure new orders and to secure contract work, we were unable to do so because of the granting of the injunction — notwithstanding the fact that the action of the court, upon appeal, was reversed, the damage suffered was insurmountable.

"Recent extreme pressure by

various creditors made it necessary for us, in order to give all creditors equal protection, to seek the protection of the court and we accordingly initiated the necessary proceedings for this purpose. Very shortly, we hope to submit a plan to the court and creditors which we think will be acceptable to them and their best interests."

Balance sheet of Shelley Knitting as of last November 30 shows liabilities of \$590,270 and assets of \$244,703. Shelley Sportswear liabilities as of the same date were \$177,966 and assets, \$36,728.

Form Beaver Mfg. Corp. To Make Knitted Polos

BESSEMER CITY, N. C.—A new knitted sportswear and children's polo shirt cut and sew plant, the Beaver Manufacturing Corp., has been organized, here, at 413 East Virginia Avenue. Principals of the company are J. Mack Holland, Jr., Philip V. Harrell and Emily B. Scott, all of nearby Gastonia. William Wilson is plant manager.

Noggle to Operate Under Regent Company Name

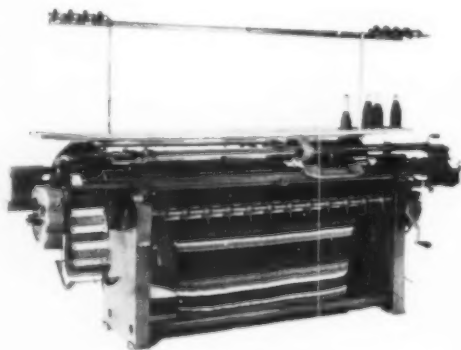
MANHEIM, Pa.—Wm. H. Noggle & Sons, Inc. has merged with its wholly owned subsidiary, Regent Company, Inc., and henceforth will operate under the Regent name.

The company is a prominent producer of cotton and synthetic fiber knits and maintains sales offices in New York at 1350 Broadway and in Chicago, Los Angeles and Dallas.

Morris Vice-President At McGregor-Doniger

Paul Morris is the new vice president in charge of merchandising of McGregor-Doniger Inc. Mr. Morris had been general merchandise manager of the company for the past two years. Previously, he was assistant to William N. Doniger, president, and merchandise manager of the company's shirting and swimwear divisions.

He joined McGregor-Doniger Inc. in 1950 as a member of the company's piece goods buying division.



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The only single lock flat power machine with
71" NEEDLE BEDS
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Additional needle space for more economical
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Sunrise And Pennell Offices In New Location

Sunrise Knitwear Company, Inc. and Pennell Sportswear have moved their showroom, stockroom and executive offices to 1384 Broadway, it was announced by Isadore Gluckson, Sunrise president. The firm was previously located at 1370 Broadway.

Sunrise is a promotional and closeout knit goods house; Pennell Sportswear is the company's men's division.

Equipment Firms

White Heads Los Angeles Office Of Singer Sewing

Richard White has been promoted sales supervisor in the Los Angeles District Office of Singer Sewing Machine Company.

The office, located at 808 South Broadway, Los Angeles, is headquarters for sales and service of the company's industrial sewing machines and allied equipment in Southern California, Arizona, and part of Nevada.

Factoring

Outlook Bright For Old-Line Firms

Old-line factoring companies are off to a good start in what promises to be the biggest year in their century-old history, according to Carroll G. Moore, counsel to the factoring division of C.I.T. Financial Corporation.

"All signs indicate that the volume of business old-line factoring concerns will do in 1960 will surpass the record \$5 billion achieved in 1959," Moore told the New York Institute of Credit. "In an expanding and increasingly competitive economy their highly specialized financing and market-counseling services will be in greater demand."

Help New Firms

Besides performing their traditional credit and collection services for older, established concerns, Moore said, factors today are geared to meet the requirements of young companies striving for a larger share of the boom market in consumer goods envisioned for the 1960's.

"These young companies need cash to grow on," he observed in his talk to the credit group. "By

selling their accounts receivable to the factor they can get working funds which otherwise would be tied up until their customers paid for the goods. What's more, the amount of cash obtained in this way is considerably more than the average businessman could get as a direct loan against his accounts receivable."

Older companies with ample cash resources and no need for outside funds also make wide use of factoring services, Moore pointed out.

Take Over Risks

"Such companies find it advantageous to rely on the factor's extensive credit facilities and marketing know-how," he said. "They let the factor worry about investigations, collections and jumbo risks. Often, because of his broader knowledge, the factor can accept customers that a manufacturer or wholesaler with more limited access to credit information would be likely to reject. This means opportunities for sales and profits that otherwise would be lost."

Although factoring dates back to the Caesars of ancient Rome, this special form of financing is experiencing its greatest growth in the mid-twentieth century, Moore noted. Fifteen years ago, he said, total volume of all old-line factoring companies in the United States was a little more than \$1 billion a year and almost all accounts were in the textile and apparel fields. Factoring volume today is past the \$5 billion mark, he said.

Thomas R. Brady Joins Mill Factors Corporation

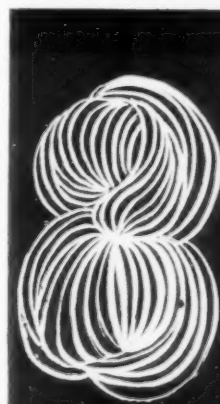
Thomas R. Brady has joined the business development department of Mill Factors Corporation, New York City. He was previously the advertising manager of Knitting Industry Weekly.

Mr. Brady will represent Mill Factors' factoring and commercial financing divisions in the metropolitan New York and New England areas.

Hubshman Dividend

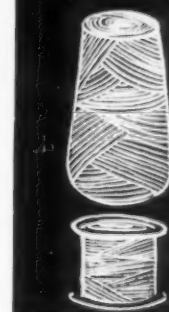
Hubshman Factors Corporation has declared its regular quarterly dividend of 12½ cents on its Class A Stock, payable February 1 to stockholders of record on January 15.

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COLOR
BRILLIANCE
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Your creations deserve the color brilliance and permanence that Globe package-dyed yarns can provide.

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Swimwear

Minnesota Opens Swim Suit Line

ST. PAUL, Minn. — Minnesota Knitting Mills, here, recently introduced its new spring and summer lines of knitted outerwear, swimwear and sportswear to the trade. Most buyers are set to place full orders of swim suits and coordinated sets of knitted sportswear, according to Ted Kuller, sales manager of the firm.

"Apparently most of the inventories from last year are depleted," Kuller said. "Interestingly enough, most of the stores in this area are stocking the higher priced lines."

Minnesota Knitting Mills will feature three of its new swim suits in a full-page color ad in the May issue of Seventeen. The firm also is offering to retail outlets a complete merchandising program with mats and other advertising aids. The suits will be advertised under the Deauville Continental label. Swim suits will be priced from \$5.98 to \$14.98 retail with more than

40 styles being offered.

"The two-piece suit seems to be making a comeback," Kuller declared. "We will be featuring seven models in the two-piece line with the balance of the fashions in low-back, narrow-strap lines in assorted styles."

In the coordinated sportswear line Minnesota Knitting Mills will feature three basic styles: India Madras plaid, luxury tweed and wicket solid color. Included in the line are walking shorts, pedal pushers, slim jims, shorts and jacket tops. They are priced from \$3.98 to \$8.95 retail.

"Minnesota Knitting Mills is 40 percent ahead of last year in unit sales and almost 50 percent better in dollar volume," Kuller noted, adding that he is very optimistic about business for the coming year.

Kaufman Anticipates Active Sales Year

MINNEAPOLIS, Minn. — "It looks as if 1960 will be our biggest year for selling swimwear and knitted cotton T-shirts and coordinated sets," Ray Schaak, vice president in

charge of sales for Kaufman Knitting Co. said in commenting on the firm's new lines.

Schaak was particularly optimistic about the acceptance of woven Lastex and cotton, knitted Lastex and Orlon and knitted Lastex and Helanca swim suits. While one-piece suits will continue to be the biggest seller, Schaak noted that 15 percent of the sales would represent two-piece suits.

Use of the new synthetic fibers in high-fashioned styles has enabled Kaufman Knitting to market an array of models in many patterns and colors, Schaak stated. The newest trends indicate that deep back and low back suits with narrow straps will be popular this coming season.

Traditional colors such as white, black, red and light blue along with the newer shades like turquoise, olive and white pink have been the best sellers, Schaak added.

He also was enthusiastic over the knitted cotton coordinated sets made from Alamac's Permathal fabrics. Kaufman will present a new spring line consisting of capris, jamaicas, pedal pushers and knee skimmers as



Striped cotton knit deck pants and closely fitted cropped top, by Kaufman Knitting Co.

well as shorts with the coordinating top.

Prices for the T-shirts are \$1.95 retail and up to \$5.95 for the complete set.



You can tell an Aldon yarn by its happy blending!

Aldon

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combs the world for new and exciting ideas — translates them into distinguished wool-spun yarns of exceptional beauty and quality for news-making fabrics and fashions.

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Ladies' & Misses'

Bulkies, Shags Major Sellers At Portland Mart

PORTLAND, Ore. — Salesmen's rooms hummed with activity at the advance spring show held by the Portland Apparel Association here at the Benson Hotel. Although bulkies dominated sweater trading the definite swing toward the classics was noted.

Textured surfaces continue popular, in addition to the brushed mohairs and the fuzzy angoras. Fur blends were still strong, for those who had them, although probably a bit less so than in the immediate past. Embroidery and other handwork effects seemed to do well.

Bright Shades

High colors were very much present in most lines and were very well received, but color preferences seemed quite well distributed.

Irv Pratt, Jr., representing Bernhard Altmann, displayed a number of women's cashmere sweaters of semi-classic type, with subtle detailing that gave them a look of much distinction. Cashmere is enjoying its greatest popularity since 1956, Mr. Pratt said. Interest centers in prices ranging from \$19 to \$29.

The classics, which were strong last year, will be still stronger for the coming year, he added, with preference leaning

toward the "neo-classics" and the uncluttered look.

Bulkies are still extremely important, according to James Healey, Weber Knit Sportswear. Semi-brushed and brushed surfaces in Orlon are continuing their popularity in this line. The cowl neck and bateau neck are good. Biggest favorite of all is the double bateau neck, in which the bateau outline is repeated in white or other contrast.

A semi-bulky Orlon, in a narrow rib with embroidery trim, in black with white, did well.

Bulkies in popcorn stitch and similar textures are strong. About 70 percent were being ordered in white, with black and pastels accounting for the other sales.

Healey also represents Mr. T Inc., of New York City, makers of cotton knit coordinates. The line included jacket and skirt combinations. A pants-and-top combination featured appliqued daisies in a petal-plucking "He loves me, he loves me not" design.

Bernard Carr, Garland Knitting Mills, reported sell-out results for his company on angora sweaters. They were received with enthusiasm by buyers, he said.

Andy Moser, representing Regina sweaters and University Sportswear of Los Angeles, reported brisk movement on cropped jackets and cardigans done in novelty textured stitches. A bulky employing simulated hand crochet was also good.



Miss America 1960, Lynda Mead, appears with Max Jaffe, vice president of House of Morrison, to show the winning Miss America sweater. It is a Ban-Lon cardigan with club collar, three-quarter sleeves and open novelty stitching down the front.

IN
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NOW Phoenix has developed an *exclusive* process for PACKAGE DYEING of fur blends, lamb's wool, cashmere, and zephyr yarns! Sweater manufacturers are no longer faced with costly winding charges and waste—yarn is delivered on cones. At Phoenix, there is no color worry—as compared with skein dyed yarn, you get greater evenness and comparable hand. Greater mobility of manufacture—lot sizes run up to 1,000 lb. kettles.

Phoenix's central locations—Chicago and Cleveland—mean quick delivery to the East, Mid West and West Coast. The very latest mechanical and laboratory facilities, coupled with high volume capacity, bring you the best dyeing service possible. The 63-year Phoenix reputation for quality, service and technical achievement speaks for itself! For PACKAGE DYEING of fur blends at its best—CALL US TODAY! We are at your service in New York at BEekman 3-4432.

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Infants' & Children's**Bulkies Loom Big At Upstate Show**

ALBANY, N. Y. — Bulky knit sweaters and knit shirts, both in the new loden colors, will be outstanding sellers this year in juvenile lines. This was the prediction of exhibitors of the Spring market of the Empire State Juvenile Mart held at the Manger DeWitt Clinton Hotel in Albany Dec. 27 and 28.

Knitted outerwear sales representatives participating in the show agreed generally that:

- The long summer has wiped out department store and retail store stocks of children's swim suits.

- Bulky knit sweater sales will continue to be very good because of the new color styles.

"Business is still strong for sweaters," is the way Charles C. Cohen of Knit-Mates Inc. expressed it. "There's no doubt that gold and olive in September was a big stimulus in sales, making it a better holiday season," said Ed Jardines of Tam O'Shanter.

Several new styles and developments were also noted in the knitted outerwear lines.

Harry M. Wyler, Regal Knitwear Company, Inc., had a new group of napped and sheared girl's sweaters of Orlon. There is also a new demand for Ban-Lon in the seven to fourteen sizes, he said.

Swimwear Shown

The year 1960 "looks good," he added, "with medium-priced lines predominating." He also agreed that "most stores have been cleaned out in swim suits this past summer." Regal Knitwear, in addition to displays of swimwear, sweaters, cotton knits, and accessories, had novelty beach bags on hand. One new item resembled an oversized Tootsie candy roll. Another looked like a large package of cigarettes.

Janie Originals Inc. had new two-piece swim suits for toddlers to teens. One item, for toddlers, is of the Bikini type and another a John L. swim suit for boys. "The stores are sold out of swim suits," according to Ernest G. Jessel, Janie's representative. "We expect a good year." Janie Originals also has a new Jan-A-

Lure sweater line for young girls.

Orlon is still popular in sweaters, Mr. Jessel said. He said Ban-Lon is also proving popular. "Bulky sweaters and brushed Orlon sweaters are selling very well," he noted.

Knit-Mates Inc. featured new Bermuda sock-polo shirt combinations for girls.

N. Y. Apparel Shows Scheduled This Month

BUFFALO, N. Y.—Knitwear retailers from all parts of New York State are making plans to attend a series of infants' and children's apparel shows to be held in Buffalo, Syracuse and Albany during January.

The New York State Infants & Childrens Wear Association will hold its Albany show at the Hotel Ten Eyck Jan. 9-11; its Syracuse show at Hotel Onondaga, Jan. 12-14; and its Buffalo show in Hotel Statler, Jan. 17-20.

The Empire State Juvenile Mart has scheduled its Buffalo show in Hotel Lafayette Jan. 10-12, and its Syracuse show in Hotel Syracuse, Jan. 13-14.

Brisk Trading Marks Boston Spring Showing

By EDWIN K. LANGILLE

BOSTON, Mass. — Brisk business and substantial bookings for knitwear at the United Boston spring showing of children's wear at the Parker House from January 3-7 indicated that retailers in these parts experienced very good pre-holiday sales.

This show was distinguished from those of previous years by the lack of shopping around. Buyers appeared to have definite ideas of what they wanted and where they were going to get it.

Spring Colors

Cotton and Orlon were the major fibers. There was some new styling but many firms presented the classics in new spring colors — gold and loden green for boys' wear and ice blue for the girls. The fashions generally closely followed popular adult styling even to the use of intricate stitch variations for trim and decoration.

(Continued on Next Page)

Bob has an even dozen . . .

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WOOLEN SYSTEM YARNS
Duesberg-Bosson Woolen Spinning Co.
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John L. Stickley • E. Clay Timanus • Robert T. Hess • Robert F. Howell, Jr. • James Y. Rogers, Jr. • Jack Stickley, Jr. • Edward W. Ward, Jr. • Arthur G. Welsh

Youthcraft Knitting Mills introduced a new coat sweater flaring out at the waist. Knit on a Dubied machine, it has a one inch Jacquard pattern band running horizontally across the chest. The garment fastens with two small pearl buttons set close together on the chest. The upper part from the band to the shoulders is knit in an open Swiss stitch. Its Peter Pan collar is decorated with embroidery.

For the one to three age group, Youthcraft had a shorts, top and cardigan set of Orlon, also available in a creeper outfit. The top has a ribbed crew neck with a red and gray trim on white. There is a three and one-half inch panel of jacquard, also in red and gray on white, across the chest. The gray shorts have one-inch wide suspenders fastened with two buttons on the waist band. The same jacquard motif is used on the cardigan which also had a crew neck and a six button fastening.

Nat Bernstein, Bluebird Knitwear, said that buying was most active for the age group from 7 to 14 and that shaggies and fancy bulky Ortons were most wanted. Predominating colors, he said, were lemon, blue ice and sun gold for the girls and loden green and gold for the boys.

One novel Bluebird style which created much interest was a sleeveless sweater fastened with five metallic buttons. The ribbed body comes in solid shades of green, blue or red and the button band is trimmed with a three-quarter inch border of black and one half inch of basket stitching. Fancy stitching was also used to decorate the arm openings together with a one eighth inch stripe of black. This number is made up in Orlon.

Napped and sheared Orlon is used for classic cardigan styles by Regal Knitwear. These sweaters are available in sizes 3 to 16 in solid shades of white, ice blue, sea sponge, clay green and lemon maize.

Joe Hayes, Regal's representative here, said that boys' tennis sweaters were outstanding sellers in the 3 to 14 age group. The sweater is equally popular with girls, he stated. The Regal model has a white body made up in double vertical cable stitching separated by one-inch squares of

rick-racking. Red, white and blue striping decorates the V neck, and is used above the ribbed cuffs and hem. Orlon was used for the tennis sweaters but Regal uses Ban-Lon extensively in its other children's knit lines.

Hayes also called particular attention to a knit Orlon swim suit that has been running up sizeable bookings in the 10 to 16 sizes. This item comes in solid shades of white, red, navy and black. Suits of the three latter shades have two quarter-inch stripes of white on either side and on the wide V neck, peaked in front. There is a panel down the front with a seam dividing a six-inch inset. The back is open and straps fastened by inside buttons may be worn straight down or crosswise.

Glendale Knitting Mills, manufacturers of sleepwear, have resumed making sweatshirts for girls and boys aged from 3 to 14 and showed a new line of pullovers and zippered cardigans for spring. These knits are of fleece lined cotton. One pull-over has a patented contour H neckline distinguished by a crew-type neck with a wide stretch and ribbing onto the shoulders. Another style has a hood and knit cord chin tie with slash pockets set in a front panel. A third style is a conventional cardigan with zippered front and patch pockets. The sweatshirt material is set off by three inches of ribbing at the waist, two inches of ribbing at the cuffs and a one inch ribbed neckband.

Financial

Duplan Reports Increase In Sales And Profits

Consolidated sales of \$25,742,864 and consolidated profits of \$1,054,964, amounting to \$1.08 per share, were reported by the Duplan Corporation for the twelve months ended September 30, 1959.

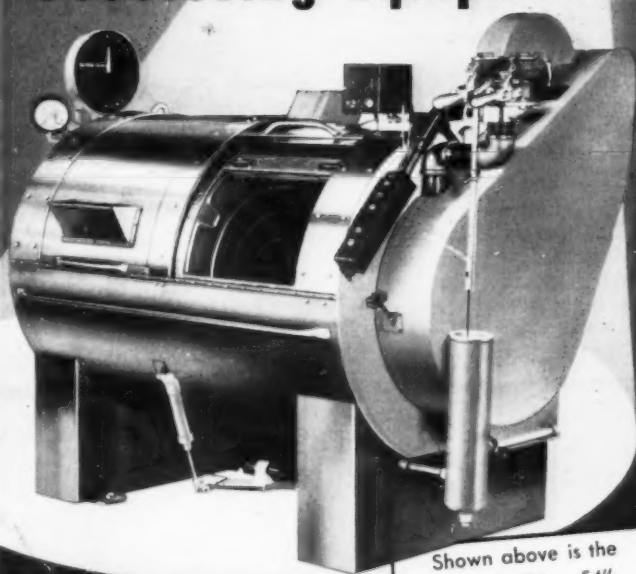
Sales for the preceding year amounted to \$21,410,403 resulting in a net loss of \$171,295.

The increase in consolidated sales for the divisions operating in the year ended September 30, 1959 over the preceding year was 31 percent. The working capital of the corporation was increased by about \$1,150,000, and as a result of the year's operation book value per share increased to \$12.87.

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Men's Wear

Texture Interest Knits Strong In Van Heusen Line

By MYRNA MACHLIS

A wide variety of synthetic fibers and fiber blends are incorporated in the Phillips-Jones Corporation spring line, which sells under the Van Heusen label. Although collar and placket models predominate, Continental look and boat neck numbers are also important.

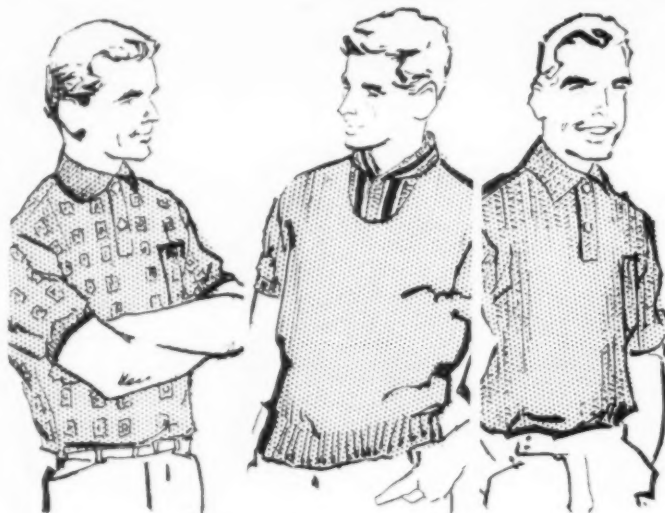
Garments featuring overall patterns and textured surfaces are especially noteworthy. There is also considerable emphasis on horizontal striping.

Gold is without a doubt the color of primary importance, with olive, light blue and wine also receiving stress.

Swimwear Picture

The swimwear picture at Phillips-Jones is a colorful one. Bold madras plaids are strongly featured along with one-size knits in three lengths and square leg models.

Of particular interest is a cot-



A vertical self-pattern highlights the collar and placket shirt at left. Semi-shawl collar, with unusual yoke treatment is important in the Orlon pullover, center. Texture interest is further emphasized in the collar and placket shirt at right. All are by Van Heusen.

ton pullover with Continental styling. It features a dobby pattern body and solid color collar. The shirt is also available with solid body and patterned collar. It retails at \$4.

A 50 percent Orlon, 50 per-

cent Coloray blend is featured in an interesting collar and placket shirt, which highlights a diamond self-pattern. A box design is important in another collar and placket shirt, with cigarette pocket, square buttons

echoing the rectangular motif, on the placket, and contrast trim on the fashion collar. It wholesales at \$36 per dozen.

Shorty Cardigan

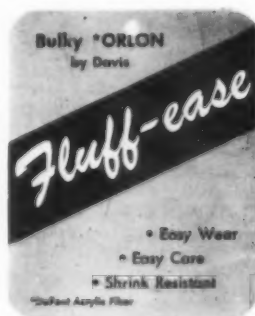
A cotton and Celaperm blend shorty cardigan features vertical variegated striping on a heather ground. An interesting button arrangement decorates the front of the short-sleeved shirt. The garment, which also has a cigarette pocket in the front, is a \$42.50 per dozen wholesaler.

Orlon is the featured fiber in an interesting cut-and-sewn sweater-shirt which wholesales for \$42.50 per dozen. The shirt has a semi-shawl collar over a yoke with vertical stripe decor.

A zig zag self-pattern is highlighted in a Durene collar and placket shirt with novelty stitch collar, cuffs and bottom edge. This model wholesales at \$42.50 per dozen.

Ban-Lon Shirts

Ban-Lon garments, in stock throughout the year for both men and women, average in wholesale price at \$57.25 per dozen. They are full-fashioned, (Continued on Next Page)



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and on the whole feature collar and placket styling.

In the swimwear category madras plaids and bold prints are important in boxer styles. One-size knits are offered in three-lengths in a cotton, acetate and rubber blend. One such suit features horizontal striping.

A cotton suit, which retails at \$4 per item, has a cross-over diagonal fly effect. A one button trim is featured at the side. A solid color suit in a woven elasticized fabric with square leg styling also retails at \$4. A cotton suit, with nautical motif features a side zipper.

Demand Rising For Ski Sweaters

Sales of ski sweaters have been picking up in various parts of the country where favorable skiing weather has arrived. Some retailers reported their early season ski sweater sales were a bit slow in starting and they blamed lack of good skiing conditions.

Retailers chalked up some good sales of ski sweaters during the Christmas shopping season and post-Christmas demand was reported by some stores located in sections where skiing conditions were favorable.

Despite the rather tardy start in sales, retailers are still looking for a good season in ski sweaters. They expect steady demand during January and February, important ski months. Brisk sales in the next two months could easily erase early season losses.

Ski sweaters have been selling in sizes and styles for men, women, boys and girls. Merchants note an increase in ski sweater trade on a family basis this season, with some families buying ski sweaters in matching patterns and colors.

The traditional Scandinavian patterns continue to account for a substantial portion of the ski sweater volume, with bright shades popular. Skiers want sweaters that are warm but light in weight and functional.

Goldman On West Coast

Harry F. Goldman, president, Allen Knitting Mills, Inc., left this week for the West Coast to visit the firm's Los Angeles office and for meetings with various West Coast manufacturers of knitted Acrilan garments.

Jantzen Adds To Special Men's Wear Sales Force

PORTLAND, Ore.—Jantzen Inc. is adding three new representatives to its specialized men's wear sales force. Announcement of the expansion was made by Donald Kennedy, vice-president and general sales manager. Newly named as men's wear sales representatives are Edward Pierce, John DeKoning and Jim Hamill.

Edward Pierce, a veteran of six years with Jantzen, who had formerly handled all the firm's lines in the Chicago area, will now cover Atlanta and the north Georgia area for the men's summerwear and sweater lines. John DeKoning will cover southern Georgia, with headquarters at the Atlanta office. He has been with Jantzen for seven years, and last year served as a junior sales representative in Iowa.

Jim Hamill will cover the Cleveland area. He has been junior sales representative in the Detroit area and has been with the company for three years.

Mr. Kennedy said that Jantzen will continue to build this specialized sales force and plans eventually to have an exclusive men's wear representative in nearly every one of the fifty states. There are now 16 sales representatives covering major cities of the country.

Personals

Reinthal's Daughter Wed

CLEVELAND, Ohio—Janet Reinthal, daughter of Arthur J. Reinthal, Bamberger-Reinthal Co. here, was wed last month to Abbey Nash, son of Mr. and Mrs. Morris Nachamkin of Brooklyn. The ceremony was held at the Oakwood Club with Rabbi Arthur Lelyveld of Fairmount Temple and Rabbi Pinchus Goodblatt of Beth Sholem Temple officiating.

Sidney Solomon a Father

A daughter, Wendy, was born on December 23, 1959, to Mr. and Mrs. Sidney Solomon. Mr. Solomon is plant manager of Freed Sportswear Co., Inc. Simon Freedenthal, secretary-treasurer of the company, is the proud grandfather.

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Dyes & Chemicals

Major Suppliers Of Dyestuffs To Knitwear Trade Increase Prices

By DORIS K. DIAMOND

Prices for dyestuffs used by commission sweater and knitting yarn dyers have recently been increased by major suppliers. The increase became effective the first of the year.

Company spokesmen, as a rule, described the price rises as applying to selected dyes rather than having been made on an across-the-board basis by product. Price hikes vary with individual dyes and to some extent with producer, from three to 10 percent.

On the whole, prices of specific acid, disperse, direct, basic and chrome dyes come in for boosts as a result of the announced increases. Acetate, azoic and mordant dyes also figure in the hike. The increases do not appear to affect the vat dye lines of any of the major producers.

The apparent reason for the increase in price is higher pro-

duction or manufacturing costs. Company representatives specifically pointed to higher chemical or raw material costs as contributing factors.

However, there was some feeling that a number of operating expenses, rather than just one, must be cited as sharing responsibility for the rise. One spokesman felt that labor and equipment costs were in part responsible for the boost, while another explained that labor renegotiations for his firm will not get underway until the second quarter of 1960.

Lab Costs Up

The expense of free customer laboratory research services, which must be absorbed in dyestuff prices, was given as another partial reason for the boost. Still another spokesman stated that, in raising prices, their firms were simply "following the industry."

William Kieffer, sales manager for Ciba, explained that about 10 percent of the company's dyestuff output of 1,000 dyes was affected by price increases ranging from three to eight percent.

Mr. Kieffer noted that the prices of one or two dyes in just about every range except the vat dye line were raised. Included are chrome, acid, direct, acetate and basic oil soluble dyes.

A spokesman for the DuPont Company explained that a "few" of the firm's dyes for the knitting trade were affected by boosts of from three to eight percent. These are from the disperse, acid, direct and mordant ranges.

According to the spokesman, the majority of the 120 dyes increased in price by DuPont are used primarily in dyeing paper.

National Aniline's increases affected about 80 of the 800 dyes sold by the firm, it was reported by John L. Waldo, manager of dyestuff sales. He said that the rises were from five to 10 percent.

Many disperse and azoic dyes

were affected by the boost, as well as certain acid, direct and chrome dyestuffs.

Increases at Sandoz are from three to 10 percent, depending on the dye. Dwight Wardell reported. All strengths of about 140 dyes were affected.

According to Mr. Wardell, a lot of acid dyes, some direct and chrome dyes, for wool and filament nylon yarns, came in for increases. All are American produced dyes.

Agreement Covers 'Unifog' Process

WILMINGTON, Del.—A one-year agreement has been concluded by the Du Pont Company with Binks Manufacturing Company, Chicago, and the Greenville Steel and Foundry Company of Greenville, S. C., to develop equipment and processes required to facilitate its recently developed Unifog spray process for applying finishing agents to textiles.

The Unifog process is a method of spraying chemical finishes on textile fabrics and is claimed to be superior to con-

(Continued on Next Page)

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ventional padding operation now being used by the textile industry.

Claims made for the new process include eliminating the need for drying equipment in some finishing operations, cutting of waste of chemicals and producing a more uniform deposit of finishing agents.

Under the agreement entered into by the three firms, the Binks Manufacturing Company will develop nozzles and control equipment required for spray application of dyes and treating agents. The Greenville Steel and Foundry Company will develop and provide equipment required for handling of textile materials under the new process. Du Pont, which announced development of the process last month, will furnish chemical treating agents required for use in the process.

Quaker Chemical Corp. Appoints J. B. Irvine

PHILADELPHIA, Pa.—Quaker Chemical Products Corp., Conshohocken, has appointed James B. Irvine field process engineer in its textile division. He will operate in Illinois, Indiana and Wisconsin. He replaces Robert Stewart, formerly in this area, who was promoted to manager of the textile division.

Synthetic Fibers

Eastman Names Murphy To Merchandising Post

James E. Murphy, Jr., has been named to a newly created post in the New York merchandising department of Eastman Chemical Products, Inc., it was announced by Amos H. Griffin, director of merchandising.

Mr. Murphy has been named as assistant to Jerome T. Collins and will work with him as Eastman liaison with the New York and Southern operations of major textile mills in both apparel and home furnishing areas. He has been associated with Eastman for seven years.

Kearns Joins Du Pont's Retail Merchandise Unit

James F. Kearns has joined the retail merchandising group of Du Pont's textile fibers department, working with Charles A. Shoecraft, retail manager for women's and children's wear.

Mr. Kearns will be located at 333 Candler Building, Atlanta, and will also represent the de-

partment in New Orleans and Miami. He will work with retailers in all three cities on women's and children's wear containing Du Pont fibers.

Carbide Co. Transfers Dynel Fiber Personnel

Two technical representatives are being transferred to the Charlotte, N. C. and Boston, Mass., sales offices of the textile fibers department of Union Carbide Chemicals Company, Division of Union Carbide Corporation, it is announced by H. M. West, department manager.

C. W. Brown, Jr., will be responsible for Dynel sales in the Southern District manager for located in the Charlotte office. H. S. Porter will handle Dynel sales in the New England district with headquarters in Needham Heights, Mass.

J. H. McCormick, formerly Southern District Manager for the fibers department, is transferred to New York City where he has been named manager of new fiber sales. H. L. Pero, formerly New England district manager for the fibers department has also been transferred to New York City where he has been named manager of customer service.

Whytlaw Heads Textile Development At AviSun

PHILADELPHIA, Pa.—Graeme G. Whytlaw has been named director of textile development for AviSun Corporation, an equally owned affiliate of American Viscose Corporation and Sun Oil Company.

In his new capacity, Mr. Whytlaw will be responsible for AviSun Corporation's textile processing research and textile evaluation programs. He was previously manager of the applications research and development section in the American Viscose's technical and textile service department.

The company produces polypropylene for use in fibers, packaging, resin and plastics applications.

Ripley Spinning Aide At American Cyanamid

Thomas M. Ripley has been appointed field technical service representative for American Cyanamid Company's Fibers Division. Cyanamid markets Creslan acrylic fiber:

IMPORTANT NOTICE

regarding the "BUYERS' GUIDE SECTION" of the 1960 YEARBOOK

Every supplier serving the knitwear trade should have received our "Buyers' Guide" questionnaire requesting information for a FREE LISTING in the 1960 KNITTED OUTERWEAR YEARBOOK.

This questionnaire should be filled in and returned immediately to the "Times"—to insure proper listing in the YEARBOOK. There is absolutely no charge or obligation attached to this FREE SERVICE.

IF YOU DID NOT RECEIVE A QUESTIONNAIRE—or if the questionnaire we originally sent you is not available, please communicate with the "Times" at once either by mail or phone. Another questionnaire will be sent to you promptly.

Your cooperation will be appreciated.

Knitted Outerwear Times

386 PARK AVE. SOUTH, NEW YORK 16, N. Y.

Murray Hill 3-7520

Cotton

World Stocks Dip For Fourth Year

WASHINGTON, D. C.—World cotton stocks are expected to decline slightly in the 1959-60 season from the 21.6 million bales on hand July 31, 1959, according to the Foreign Agricultural Service, U. S. Department of Agriculture.

Although the reduction this season probably will be less than 0.5 million bales, it will be the fourth straight annual decline from the 11-year high of 25.1 million bales on July 31, 1956.

The 1959-60 world crop is now estimated at a record high of 46.7 million bales. However, world consumption is rising and present indications are that it may also reach a new high and slightly exceed production, which would result in an equivalent decline in world stocks.

Most of the world stock decrease this season will be in foreign Free World countries producing upland-type cotton, as the result of lower production, increasing consumption, and

strong export demand which will again siphon off most of their export availabilities. In Communist countries continuation of the increase in consumption and lower aggregate production is likely to decrease stocks. The drawdowns in stocks in foreign exporting countries will more than offset some replenishment of the relatively low stocks in foreign Free World importing countries. This increase is being stimulated by generally improved economic conditions, along with lower and more stable and closely competitive cotton prices.

Stocks Unchanged

In the United States, stocks at the end of this season are not expected to differ greatly from those on hand August 1, 1959, based on the latest estimates of supply and disappearance for the 1959-60 season.

An increase of more than 3.0 million bales in U. S. production from the 1958-59 crop of 11.5 million bales probably will be offset by an increase in consumption from 8.7 million bales in 1958-59 to around 9.0 million this season and a substantial

7 percent in each of the 2 pre-prise in exports from last year's low level of 2.8 million bales to at least 5.5 million in 1959-60.

There was a sharp reduction in U. S. cotton stocks for two years following the all-time high of 14.5 million bales in 1956. This reflected relatively high exports and lower production brought about by continuation of acreage controls and initiation of the soil bank program. However, U. S. stocks increased slightly to 8.9 million bales on July 31, 1959, from 8.7 million a year earlier, chiefly because of the smaller 1958-59 exports.

At the beginning of this season, U. S. stocks represented 41 percent of the world total, compared with 39 percent a year earlier. The United States held 64 percent of total stocks in exporting countries this year, compared with 61 percent in 1958.

The U. S. upland carryover on August 1, 1959, contained the largest proportion of Middling and higher grades since 1955. The proportion of Strict Middling and higher grades in U. S. stocks at the beginning of this season was 11 percent, com-

pared with the 30-year lows of ceding seasons. Although this year's stocks of Strict Low Middling and below were about 28 percent smaller than a year earlier, they still amounted to about 4.5 million bales, or 52 percent of the upland total.

Total CCC inventories of upland cotton as of December 9, 1959, were 6.7 million bales. About 2.8 million bales of this was 1959-crop Choice A cotton, most of which was in the hands of local sales agents and currently available for sale. The remaining 3.9 million bales were from 1958 and earlier crops, 2.0 million bales of which have been cataloged.

Yarn Suppliers

Horchler-Brophy, Inc. New Yarn Agency Name

Martin H. Horchler and David H. Brophy have incorporated their yarn sales agency under the name of Horchler-Brophy, Inc. The firm formerly operated under the name of Martin H. Horchler Company. Offices are located in the Empire State Building.

The French Worsted Company now offers these specialized services of its newly merged Dauray Textiles Division:



Texturalized yarns



Specialty fibers



Novelty yarns

NEW! ... from French Worsted

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Blends of all fibers



Turbo processed synthetics in natural, colors, and heathers

First among "Orlon"® tow-dyed spinners

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LEE PICKENS
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Charlotte, N.C.
Emerson 6-2050

BARNEY KRON
Harry Schwartz
Yarn Company, Inc.
868 Traction Ave.
Los Angeles 13, Calif.
Madison 4-7644

Pennsylvania and Midwest
CHARLES J. DAURAY
7850 Oxford Ave.
Philadelphia 11, Pa.
Pilgrim 2-8608

Collins & Aikman Adds Equipment

Installation of new spinning machinery at the Norwood, N.C. plant of Collins & Aikman is being completed. Robert W. McCullough, executive vice president for manufacturing, said the new equipment represents an expenditure of \$2,000,000.

Acquisition of the machinery, and the recently announced sale of its worsted spinning plant in West Barrington, R. I., are part of a move to consolidate yarn spinning operations and to modernize and expand spinning facilities for the knitting and weaving sales yarns trades.

The plant will be able to handle long staple natural fibers as well as long and short staple fibers. Production facilities for quarter blood yarns will be substantially improved.

Much of the new spinning machinery was produced by Saco Lowell and Warner Swazey.

Kramer And Wolf Form Knit Yarn Sales Agency

Mort Kramer and Teddy Wolf have formed a new yarn sales agency under the name of Kramer & Wolf, Inc. Offices are at 303 Fifth Avenue, New York City. The firm represents Collins & Aikman Corp., spinners of worsted, mohair blends and synthetic fiber yarns in natural and dyed form.

Lamont Heads Yarn Sales For Riverside Silk Mills

GALT, Canada—E. S. Lamont has been promoted to manager of apparel yarn sales for Riverside Silk Mills Ltd., here. Mr. Lamont, before joining Riverside in 1955, was connected with Monsanto Chemical Co., Alexander Smith Carpet Co. and Joseph Bancroft & Sons Co.

W. R. Phillips Appointed Blumenthal Vice-Pres.

Appointment of William R. Phillips as a vice president of Sidney Blumenthal & Co. was announced by James S. Love, Jr., president.

The company, a division of Burlington Industries, produces knitting yarns and is a major producer of pile fabrics for apparel.

Since joining Blumenthal in August, 1959, Mr. Phillips has been merchandising assistant to the president. In his new capacity he will have broad responsibilities in the company's sales and merchandising areas.

Du Pont Co. Cuts Price Of Hosiery Nylon Yarn

WILMINGTON, Del.—The price of 15 denier nylon monofilament hosiery yarn sold on bobbins was reduced by \$1.36 a pound effective with January shipments, the Du Pont Company announced today.

All other nylon prices remain unchanged, including 15 denier nylon monofilament sold on tricot beams at \$4 per pound.

The new price of \$3.89 per pound for the nylon hosiery yarn matches the price set by competition last November for 15 denier nylon yarn on bobbins sold principally to the tricot trade.

Zefran Types Available For Wool System Blends

WILLIAMSBURG, Va.—Blends of Zefran suitable for application on the woolen system of spinning are being made available by the Dow Chemical Company, producers of the acrylic fiber. The blends, according to Amos Ruddock, sales manager, are designed primarily for acrylic and wool blend fabrics.

One blend, called W-2, has an average denier of about 2.5. It sells for 99 cents a pound and comprises varied staple lengths. W-2 has an upper spin limit of 8-run.

The W-4 blend has an average denier of about 4.5, sells for 94 cents a pound, also comprises varied staple lengths and has an upper spin limit of 6-run.

Both of these blends have been especially developed by Dow to fit into existing processing and dyeing technology standard for wool. Using conventional woolen technology, a wide range of acrylic and wool blends can now be produced.

All fabrications produced to date contains from 50 to 80 percent Zefran acrylic fiber, a blend level in keeping with Dow marketing policy.

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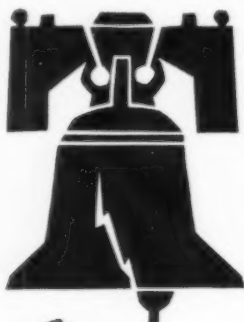
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AATT Meeting

Sees Need For Basic Research On Wash-Wear

Wash and wear will not be perfected until some of its fundamentals are more thoroughly understood, Dr. Walter J. Hamburger, Director of Fabric Research Laboratories, Inc., Dedham, Mass., told members of the American Association for Textile Technology at their January 6 meeting held at the Hotel Vanderbilt. The title of Dr. Hamburger's talk was "Geometric Considerations in Wash and Wear Fabrics."

Great developments frequently come into being by what might be called a "planned accident," with varying degrees of dependency upon scientific principles, Dr. Hamburger stated. But he added that few of these are perfected or refined without a fundamental understanding of their behavior.

Wash and wear is presently at a stage of development where major improvements are forbid-

den or at least considerably delayed because of a lack of fundamental information, according to Dr. Hamburger.

"We can expect only marginal improvements from the current, essentially trial-and-error approach to perfecting wash and wear," he said. "Until we have obtained answers to a good many why's relative to wash and wear it will be only with exceedingly good luck that we achieve perfection in the product."

Very little is understood about the relationships of many fiber, yarn, and fabric properties to crease resistance during washing, drying, and wearing, Dr. Hamburger stated. He presented data accumulated at FRL on the correlation between crease recovery and fabric curl. While noting that the studies were made on wool, he expressed confidence that similar results would be found with cotton and synthetics.

Briefly, it was shown that crease recovery is measurably improved if a fabric is creased in a bias direction (across the warp and filling) in the opposite direction to the fabric's

(Continued on Next Page)

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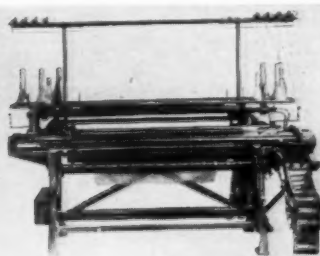
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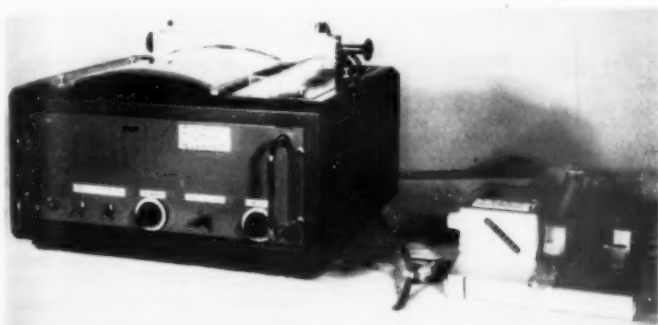
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Device developed by British Wool Industries Research Association which measures wool fiber length at all stages of processing.

natural bias-direction curl. Dr. Hamburger strongly recommended further research on what he termed "the exceedingly complex relationship between fabric curl and creasing" and speculated that, judging from his laboratory's preliminary studies, expanded research in this area could prove extremely rewarding.

While the relationship between curl and crease resistance may be the newest contribution to fundamental thinking on wash and wear, it is far from the only subject in need of basic study, according to Dr. Hamburger. Other suggested areas of research: studies of the correlation between fiber properties—such as resistance to deformability, recoverability from tension and bending, and response to all pertinent environments—to the fiber's performance in the fabric end item; studies of swelling, shrinkage, and other factors which cause changes in freedom of motion of fabric components; studies of yarn size, twist, thread

spacing, yarn packing, filament denier, weave, calendering, fabric structure, etc. as all influence the fabric's ability to recover from strain.

Dr. Hamburger emphasized that one could not simply turn a switch and get all this fundamental information. Undoubtedly, years of research are needed, he said.

Booklet of Verse Written By A. Reinthal Published

CLEVELAND, Ohio—Ajax, a frequent contributor of verse to two Cleveland newspapers is revealed as Arthur J. Reinthal, of Bamberger-Reinthal Co., with the publication of a booklet on verse entitled, "A Little Nonsense."

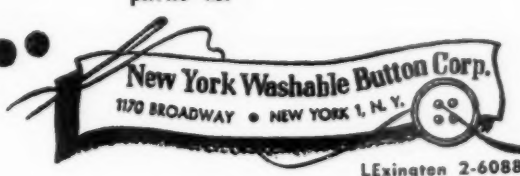
The booklet is a collection of the verses which Mr. Reinthal contributed under the pen name of Ajax to Wes Lawrence's "Breakfast Commentator" column in the Cleveland Plain Dealer and to Joe Newman's "It Could Be Verse" column in the Cleveland Press.

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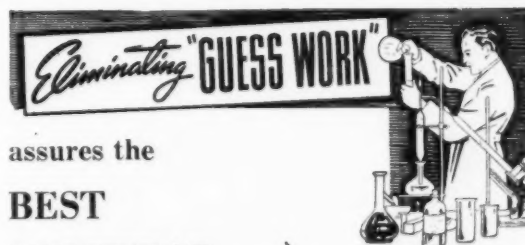
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Knitwear Abroad

Scots Seek To Introduce Fashion In Hebrides Knits

GLASGOW, Scotland (Scottish Amalgamated Trade News Agency)—If present plans succeed, the trade will shortly be introduced to "Harris Highs" and "Lewis Longs." These are the names which have been given to jerseys knitted in heavy wool on large needles by crofters in the Outer Hebrides. Sponsor of the names and the styles is Mrs. Jane Koster, professional knitwear designer who has been brought in to assist the Scottish council and the Crofters Commission to organize the hand knitters in the islands on fashion lines.

Need Style

The problem which has continuously faced knitters is that their garments are functional but unfashionable. The problem now involved is to add the element of fashion which will make these hand knits acceptable to the fashion world which buys imported knitwear.

The American market is naturally very much in mind and "Harris Highs" and "Lewis Longs" have already received favorable comment from buyers there. "Harris Highs" are designed for masculine wear and incorporate an attractive high standing collar. "Lewis Longs," as their name implies, are long lounging heavy knits.

Coordination Planned

Visiting the Hebrides in December, Mrs. Koster held meeting with local officials at Tarbert, Harris, to arrange a commercial system which could coordinate the work. The Scottish Council is meeting initial expenses and the Highland Home Industries is also interested.

Competent island knitters can turn out three garments a week which could mean an income in the region of five pounds. There are an estimated 130 knitters in Harris giving a potential output of three hundred hand knitted garments a week. The output is not large by commercial standards.

The essential question is whether the garments prove to have the intangible bouquet

which provide a premium in the export market. Earlier efforts give only limited encouragement and hope that the hand knitters can be converted to high fashion needs.

It is an interesting aspect of current fashion trade interest that Shetlands, commanding a substantial export trade, are being produced extensively out of Shetland, largely because the mainland knitwear factories have the necessary approach to fashion which has been lacking for so long in Shetland itself. The same situation applies with Harris. The genuine article may well have a distinctive atmosphere and appearance.

The question now is whether the knitters can be organized and pressurized into producing garments which the export markets of the world will accept, or whether these two will lead to a crop of Harris garments produced in the factories elsewhere by more aggressive and progressive concerns.

Swedish Knitters Eye Export Field

STOCKHOLM, Sweden — Top Swedish knitters are turning their eyes more and more to export markets and latest ranges contain knitwear styled expressly to appeal to overseas buyers.

The new Iceland range of AB Jersey Modeller, of Borås spotlights this growing interest. Traditional folk designs are blended with up to the minute styling for casual wear and sports wear. The thick, bulky look is still featured in this Scandinavian range of winter sports wear. Chunky sweaters knitted in traditional designs are usually hip-length, with full-length sleeves and contrast, one-button collars. Often they have matching knitted caps.

Owl Neckline

Other styles are knitted in dark, self-colors, have long sleeves and pull-up cowls fastening with a draw-string. These sweaters are designed to be worn with matching skirts which have broad bands of folk-patterning around their hems.

Hip-length over-sweaters for out-door wear over other knitwear are also in the ranges. These have big, emphasized polo collars and long, tight-cuffed sleeves.

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Stripes, Patterns Highlight Of Leading Continental Spring Knit Collection

BREMEN, Germany — Among those German knitwear manufacturers whose fashion collections have always shown a strong individualistic trend, the Bremer House, this city, is probably one of the leading concerns. The collection designed by this firm for the spring and summer 1960 season seems to have been largely dictated by the hot summer which Germany enjoyed this year. Fabrics are light and lofty and very often of an openwork character. Shades have been chosen to harmonize with sun tanned skins.

Patterns are dominated by vertical and horizontal striping and colorful jacquard designs, the latter being a specialty of this company. The jacquard designs consist partly of multicolored fruit motives which have been distributed at random over the fabric. The classic summer shades of navy, white and red are emphasized.

A striking feature of this collection lies in the fact that many models have been fitted with small short sleeves. This goes for cardigans and bolero jackets too.

Collar styles range from the wide deeply cut variety to the high neck buttoned up style.

If pullovers incorporate a col-



Jacquard design pullover with wide collar. The garment is knitted from Merino wool. Collar and rib borders are knitted in contrasting colors and have been looped on.

lar, these are usually large and a good distance away from the neck. One or two collar styles, however, are of the close fitting type, thus giving more prominence to the pattern design of the garment. Jackets use either a small high neck buttoned up collar or a large wide collar style.

Orlon Bulxies

Very coarse gauge heavy garments have been knitted from Orlon. The pattern effect here consists largely of numerous pronounced rack designs. The large collars of these garments tend to have an eye catching effect.

Boucle material has been used frequently and a striking example in this range is a coarse openwork garment which seems to have been designed in the expectancy of another hot summer.

Men's outerwear in the company line is still dominated by dark shades and the use of vertical and horizontal striping. Lofty knitted structures have been used for lightweight shirts with short sleeves and a classical style collar.



Fine gauge cardigan knitted from high quality Merino wool. The rib border is looped on.

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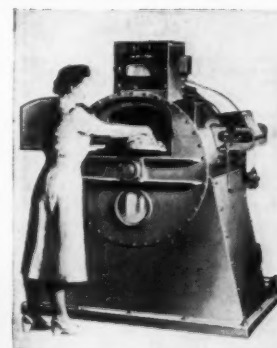


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INDUSTRY'S BOOK SHELF

THE BUYER'S MANUAL, Published by the Merchandising Division of the National Retail Merchants Association, New York, N. Y., 433 pages.

Here is a book that should prove helpful to many knitwear executives, especially those actively engaged in sales and merchandising. The volume is a compilation of essays, written by prominent figures in the retail world, each a specialist in his particular area.

The book covers such topics as department store organization, methods of interpreting consumer demand, determination of price lines, buying ethics, markdowns and fashion promotion and coordination.

There are a number of informative charts, including one which describes the organization of the department store and another which shows the organization of the merchandising division of a retail store.

PHYSICAL METHODS OF INVESTIGATING TEXTILES, Published by Textile Book Publishers, Inc., New

York, N. Y., Edited by R. Meredith, J.W.S. Hearle. 411 pages, Price \$13.

Members of the industry interested in textile testing procedures will find this a valuable and useful reference book. The editors are both authorities in textile science. Mr. Meredith is a member of the department of textile technology at the Royal College of Science and Technology, Glasgow, Scotland. Mr. Hearle is on the staff of the department of textile industries of the Manchester College of Science and Technology, Manchester, England.

The book is a compilation of essays, written by noted specialists in the textile field. Of special interest to knitwear people are the chapters on yarn and fabric structure and the mechanical properties of fabrics.

Charts and photographs are included in the volume, illustrating many basic principles. Topics such as X-ray techniques, electron microscopy and the frictional behavior of textiles are also included.

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(Continued from Page 5)

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500 lbs.—1/20½, natural, H.B. Orlon, cones
1500 lbs.—2/16, asst. colors, 6 denier, Orlon, H.B., cones
1500 lbs.—2/17, asst. colors, 6 denier, Orlon, H.B., cones
2500 lbs.—2/20, asst. colors, 6 denier, Orlon, H.B., cones

SAM SASKEN

1441 Broadway, New York 18, N. Y.

CH 4-8733

**FOR SALE
ELASTIC YARN FOR KNITTING**

● All Sizes and Colors

BEDFORD YARN CO.

79 Clifton Place
Brooklyn, N. Y.
MAin 2-1340

ALL TYPES OF YARNS BOUGHT & SOLD

WORSTED — ZEPHYR — COTTON — ALL SYNTHETICS

ARDSLEY YARN CO. Also Rothkopf

306 BUSHWICK AVE.

BROOKLYN 6, N.Y.

EV 4-8841

CONTRACTORS WANTED, CONTRACT WORK WANTED**CONTRACTORS WANTED**

Fine gauge and bulkies. Girls' cardigans
and slipovers in sizes 2-3x, 4-6x, 7-14.

BOX 27**CONTRACTORS WANTED**

Fine gauge and bulkies. Boys' cardigans
and slipovers in sizes 2-3x and 4-6x.

BOX 28**CONTRACT WORK WANTED**

We have 4 cut LH machines. Also 8 cut LH
machines, 7 cut TJs. Specializing in reworked
Orlon, ladies', men's or children's sweaters.

BOX 20L**WANTED**

Knitting only on 4 cut Leighton rackers for bulky
knits, specializing in all trimmings. Also brushing.

BOX 20W**HELP WANTED****PRODUCTION MAN WANTED**

\$15,000 a year plus bonus. Must be thoroughly
experienced in better children's sweaters, yarn
to box. Write complete experience in first letter.

BOX 10B**SUPERVISOR WANTED**

to take complete charge of knitting department consisting
of TJ, LH, TAI, Scott & Williams and flat machines. Mill
located in New Jersey, 15 minutes from mid-town New York.
State salary and experience, first letter.

BOX 522**TOP KNITTER-MECHANIC
WANTED**

Must be capable of handling and maintaining circular
knitting department — and have a thorough knowl-
edge of circular links and jacquard machines. Excellent
opportunity for right man. Mill located in Brooklyn.

All replies confidential.

BOX 20Q

WANTED — CUTTER

with knowledge of styling, to take full charge of finishing plant for ladies' sweaters. Good opportunity.

BOX 23

**WANTED
SUPERVISOR FOR KNITTING ROOM**

Must have knowledge of measuring cloth, controlling yarns, yields, etc., issuing knitting orders, supervising personnel.

BOX 26

KNITTER MECHANIC

Permanent position with attractive salary for an expert all-around knitter-mechanic, thoroughly familiar with Jacquard, TAI, Links and Dubieds.

Nearby Pennsylvania, large city. Excellent living conditions. Reply in confidence.

Personal interview will be arranged.

BOX 20N

PRODUCTION MAN WANTED

Manufacturing knowledge of sweaters from yarn to finished product. Should have experience working with contractors. Good working experience with production control and yarn inventories.

Interesting proposition and future for right man.

PREMIER KNITTING CO.

1410 Broadway, New York, N.Y.

BRyant 9-2910

WANTED

Top-Notch Wool Jersey Finisher

to set up wool jersey finishing department for progressive company in the South. Send details to:

BOX 20A

KNITTER-MECHANIC WANTED

Due to retirement, we are seeking an experienced mechanic on Philadelphia Jacquard transfer machines.

Lifetime opportunity for qualified individual. Mill located in Hudson County, New Jersey.

BOX 22

SEWING ROOM SUPERVISOR

Established, progressive Philadelphia sweater mill producing quality sweaters has an opening for a take charge supervisor in our sewing department. Production and quality control experience essential. Must also be capable instructing help. To this qualified person we can offer an excellent opportunity and future.

BARRINGER KNITTING MILLS, INC.

1215 W. Glenwood Ave., Phila. 33, Pa.

TOP NOTCH MECHANIC WANTED

Supreme R.O.F. and automatic.

KNITCREST MILLS CORP.

New & Washington Sts., Allentown, Pa.

HEmlock 3-7433

WANTED — KNITTER-MECHANIC

on LH and flat machines, to take full charge of knitting department. Good opportunity for the right man.

BOX 20H

POSITIONS WANTED

PRODUCTION MAN AVAILABLE

Young man seeks position with responsibility, future. Knowledge of yarns, fabrics, all phases of Supreme, Brinton, knitting mill operation.

BOX 20B

OFFICE MANAGER AVAILABLE

Accounting background, accustomed to heavy details, responsibilities, supervision. Thoroughly experienced in all office procedures and bookkeeping operations. 12 years in last position with prominent knitwear firm.

YOnkers 8-0682 or BOX 20D

AVAILABLE

Knitter-mechanic-designer. LH, TJ, TA, TAI, Stafford, Brinton, Philip, Supreme, flat Links, many flats, hand flat and hand Links. Part time evenings.

BOX 20E

KNITTER-MECHANIC (MACHINIST)

with references, seeks position. Expert on circular and flat knitting machines: Jacquard transfers, Interlock, Leighton, Wildman, Stafford, etc. Producing sweaters, suits, cuffs, bulkies, etc. Technical background — can make and fit any part; no guess work. 34 years experience.

P.O. Box 364, New York 1, N.Y.

KNIT GOODS MANUFACTURERS ATTENTION!

Unique designer available, female. Several years in European and U.S. markets. Can create and set designs for domestic and imported circular and flat machines (Supreme, PR, Norat, Terrot, Leighton and Universal). Outstanding color sense, yarn application for yarn dyed or piece dyed fabrics. Also garment constructor, ladies', men's and children's.

BOX 20Y

BUSINESS OPPORTUNITIES

WILL BUY

or consider partnership in a 6 or 7 gauge double jack flat Links plant.

BOX 510K

PARTNER WANTED

Well established ladies' sweater jobber with unlimited credit, doing over 1½ million dollar business and selling to best houses in the country is seeking partner to replace the one wishing to retire. Party must have expert knowledge of manufacturing and production. Must also be in a financial position to pay out out-going partner. Would also consider top salesman. Replies strictly confidential.

BOX 20J

ATTENTION BAN-LON SPINNERS

If interested in North Carolina

sales agent, contact:

BOX 29**UNUSUAL OPPORTUNITY**

Prominent salesman and creative designer team are prepared to offer best accounts and designs for top children's knitwear manufacturer on a partnership basis. Respondent must be able to manufacture and ship our outstanding lines. We have been in the children's wear field for 25 years. Reply in confidence.

BOX 20F**PRODUCTION MAN**

with jobber contacts wishes to invest in going mill.

BOX 20V**CLOSEOUTS****COTTON KNIT FABRICS WANTED**

We pay cash for closeouts. Stripes, fancies, solids, underwear materials, etc. Full pieces and remnants. Also interested in woven fabrics.

HUB OVERSEAS CO., INC.

moved to new and larger quarters

394 Broadway, New York 13, New York WOrth 6-5544

KNIT CLOSE-OUTS WANTED

Top prices for solids, stripes and fancies.

S. LEVINE AND SONS

639 N. 2nd St., Allentown, Pa., HEmlock 5-3578

CLOSE-OUTS WANTED

CASH PAID for surplus stocks of Sweaters and Bathing Suits.

BERNETTE TEXTILE COMPANY

101 W. 31 St., New York City

BRyant 9-5526-7

CLOSEOUTS WANTED**SURPLUS LASTEX & ELASTIC FABRICS**

For Export Full pieces—Shorts Any quantity—Fair prices

HERBERT L. TOFFLER AND SONS, INC.

440 Fourth Ave., New York 16, N. Y. MU 5-3906

SERVICES, SUPPLIES FOR SALE**SAVE MONEY ON POLYETHYLENE BAGS**

9½ x 13—G. 001 @ \$5.15 per M—G. 00075 @ \$4.50 per M

11 x 14—G. 001 @ \$6.35 per M—G. 00075 @ \$5.25 per M

LUCKY POLYETHYLENE MFG. CO

454 Berry St., Brooklyn 11, N. Y. EVergreen 8-5403

FINANCING AND LOANS

Confidential Advances

Small and medium firms. No minimum charges.

SUPREME**MU 7-3571****SALES REPRESENTATION WANTED, LINES WANTED****SELLING ORGANIZATION**

Mill specializing in ladies' bulky sweaters desires firm with New York showroom and ability to guide development of styles to sell direct to chains and department stores. Replies confidential.

BOX 20C**TRADE WANTS**

RATES: one insertion—35 cents per word. Words set completely in capitals — 40 cents per word. Box numbers count as two words. Minimum cost of advertisement—\$5.50. Minimum cost of Positions Wanted advertisements — \$5.00. Trade Wants for Monday's paper must be in by preceding Wednesday, 2 P.M. Please enclose payment with your order.

Available: Knitter-Mechanic on LH machines. Box 20.

Salesman with wide experience in the knitwear industry seeks connection with reliable ladies' knitwear jobber or mill. Box 24.

I WILL BUY OR CONSIDER PARTNERSHIP IN A GOING KNITTING MILL. BOX 25.

Available — cutter on men's and ladies' sweaters, suits, thoroughly experienced. Box 20M.

LEASE — PURCHASE. LOFTS — BUILDINGS. ALL SIZES — ALL LOCATIONS. MILTON WOLF & CO., 744 BROAD STREET, NEWARK, NEW JERSEY, MI 3-8844.

Only finishing work wanted for Or-lon, Ban-Lon, bulky and wool sweaters. Box 20R.

Mechanic seeks position on Jacquard circulars, capable and experienced in taking complete charge. Box 20T.

WASTE**G & N****PAYS HIGHEST PRICES FOR KNITTED WASTE**

Any time — Anywhere

Call
EVERgreen
6-0022

Out of Town — Call Collect

G & N WOOL CLIPS
55-17 Flushing Avenue
Maspeth 78, New York

To Place Your Ad: Call Murray Hill 3-7520 or Use This Handy Order Blank

KNITTED OUTERWEAR TIMES

386 Park Avenue South, New York 16, N. Y.

Gentlemen:

Insert the ad written below in..... issues.

(Check one)

☐ **TRADE WANTS**

Rates per insertion: 35c per word; 40c if set in capitals. Box number counts as 2 words. Minimum cost per adv. — \$5.50. Positions wanted — \$5.00.

☐ **DISPLAY AD**

☐ 2" — \$11.00
☐ 4" — \$22.00
☐ 10" — \$55.00

Please Enclose Payment With Order.
ADVERTISEMENT

☐ Check here if you want a confidential box number (replies sent to you as we receive them).

Name.....

Address.....

(Use separate sheet if necessary. Attach this order blank.)

DIXIE YARNS



**DIXIE
MERCERIZING
COMPANY**
CHATTANOOGA, TENN.
NEW YORK • CHICAGO
LOS ANGELES • MEANE
PROVIDENCE • READING
PHILADELPHIA



Kapart Cuties for aqua-tots

are Muriel Henry Designs in
new Poodlette, loop-textured
fabric in two happy versions;
stretchable[†] as a second skin



for swim suits, and
without the stretch
mighty fetching



for coordinated tops.... both

knit of Dixie yarn-dyed
combed peeler cotton



[†]100% Dixie yarn-dyed cotton
35% DuPont stretch nylon
[‡]Pat. pending

DURENE MERCERIZED • DYED AND BLEACHED • COMBED PEELER SINGLE
AND PLY • TURBO AND STAPLE CHEMICAL FIBERS • TUFTING YARNS

Now ... with 1960 only a few days old ... we can see that

THE WOOL BOOM HAS ALREADY STARTED!

Wool consumption is on the increase, according to every reliable report from knitters, stylists, yarn spinners!

Now, more than ever, you need to remember this:

BANNER — with many millions of pounds of Wool Dyeing "Know-How" — plus its great capacity and modern plant is **BEST EQUIPPED** for dyeing all types of Wool and Specialty Fiber Yarns!

BANNER was **FIRST** to offer its **MOTH-FREE®** process which "permanently moth-proofs all Wool Yarns for the life of the garment." The **MOTH-FREE®** process is available to you without extra cost — just ask for it!

1000-POUND KETTLE LOTS . . . ONLY AT BANNER

progress is our greatest asset!

GREAT NAMES IN KNITTED OUTERWEAR PROCESSING

BANNER YARN DYEING CORPORATION
BANNERIZED CORP. OF AMERICA
BANNERLON PROCESSING CORPORATION
BANNER PIECE DYEING CO. INC.

488 Morgan Ave., Brooklyn 22, N. Y. • EVergreen 8-0100

NOW AVAILABLE:

OUR "EARLY-BIRD FASHION
COLOR FORECAST — FALL-
WINTER 1960"—DIRECT FROM
THE FASHION CENTERS OF
PARIS AND ROME. ASK US
FOR A PERSONAL COPY.

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